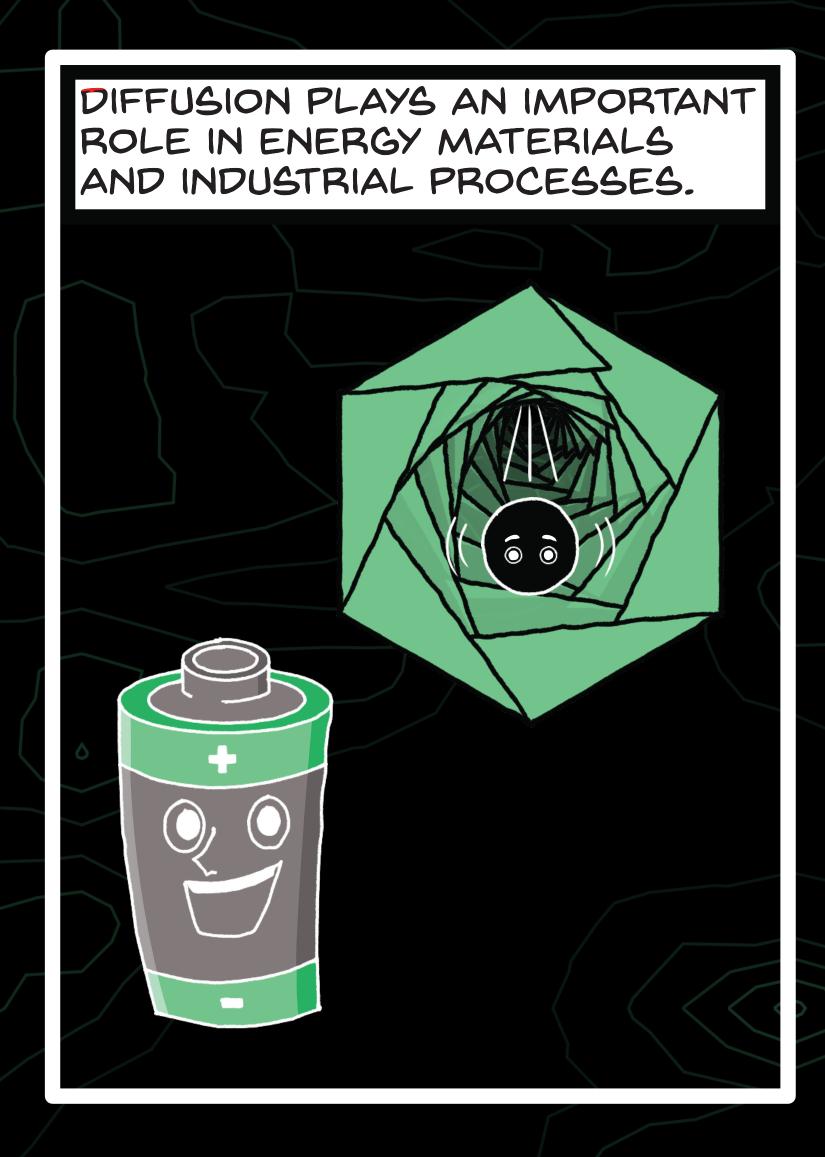


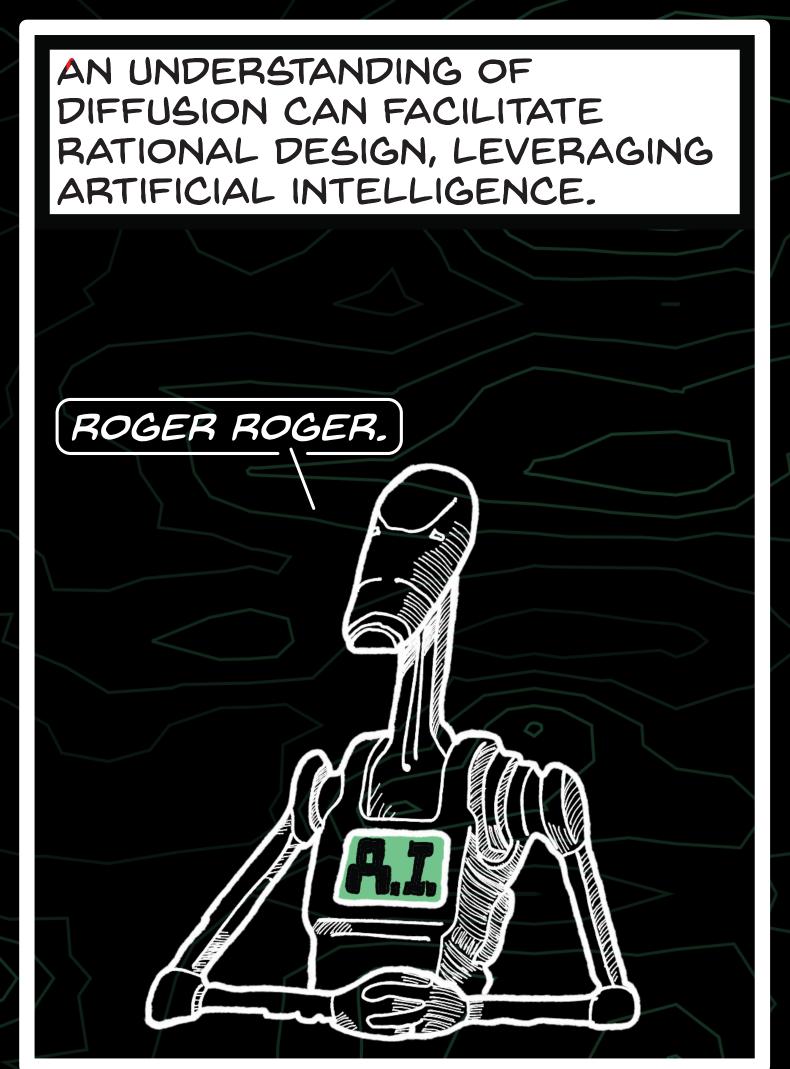
## THE MEASUREMENT PROCESS IS A NOISY CHANNEL; INFORMATION IS LOST. THE ROLE OF ANALYSIS IS TO TRY AND RECONSTRUCT THE PHYSICAL OBSERVABLE.

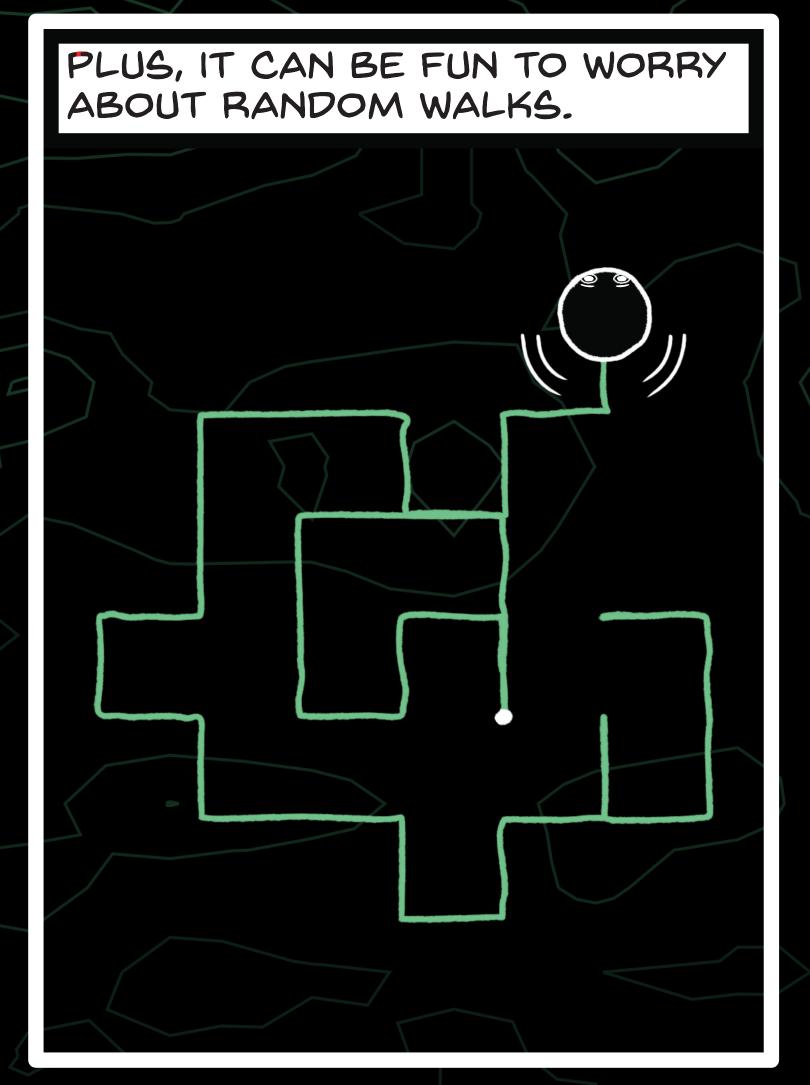


scams-research.github.io

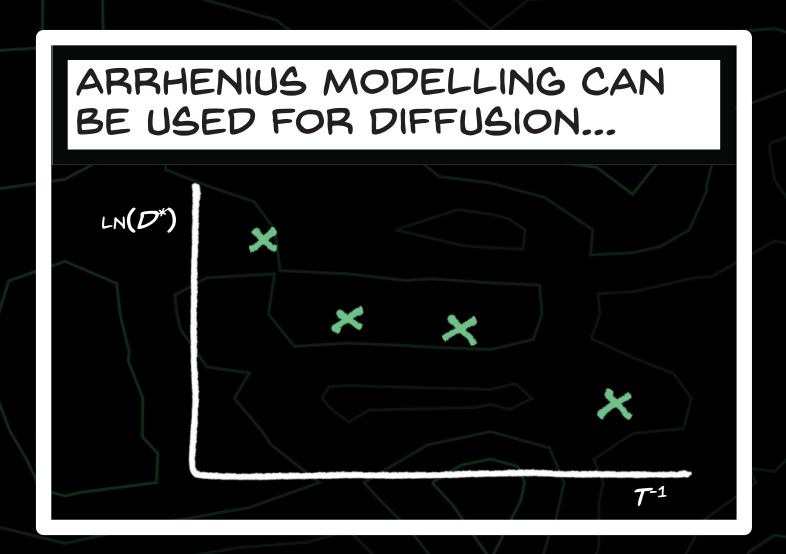




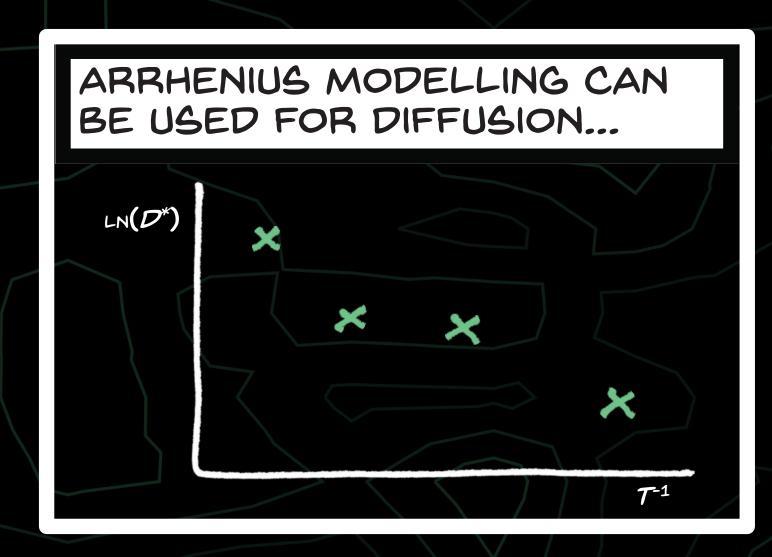


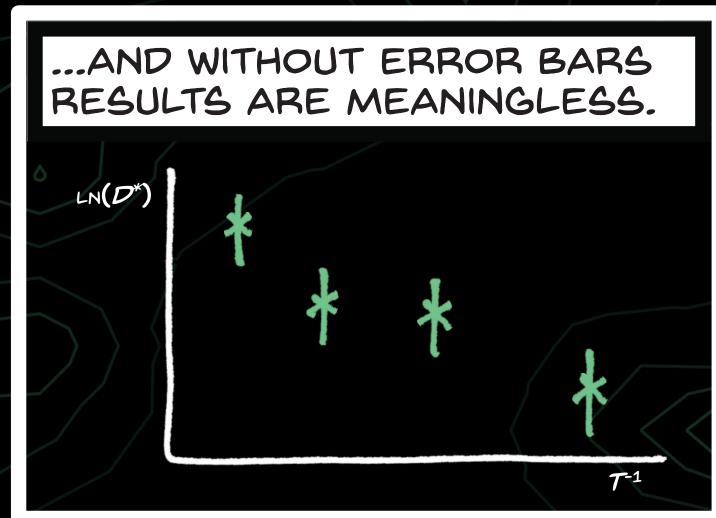




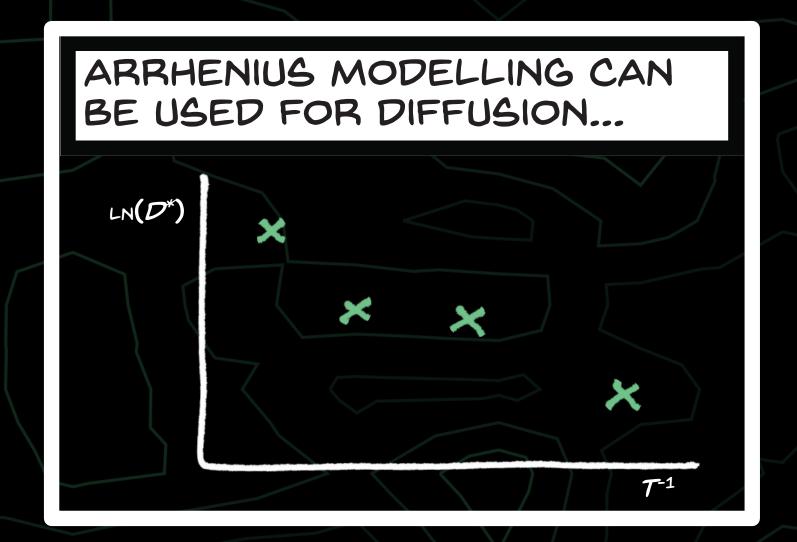


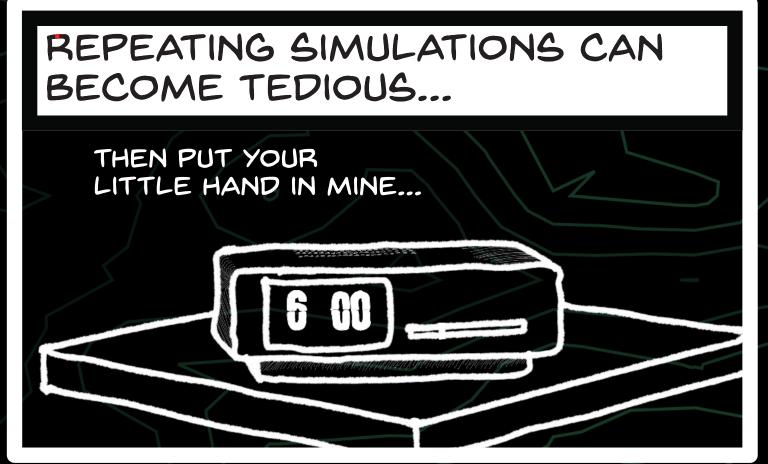


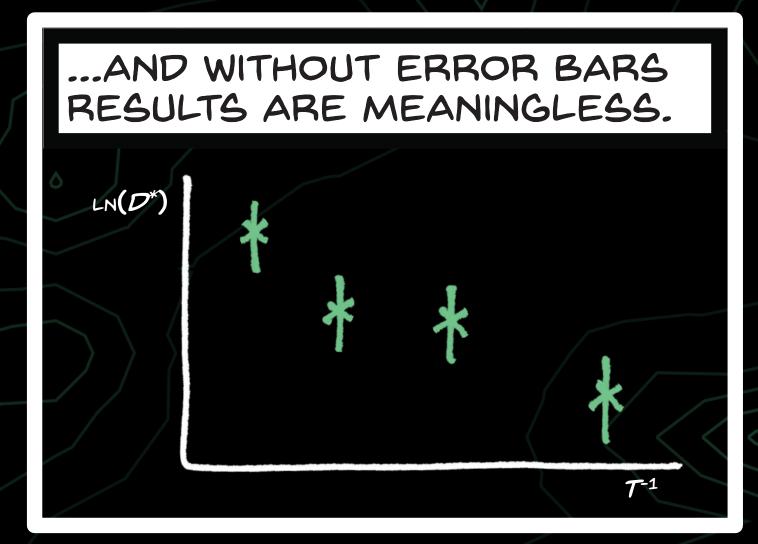








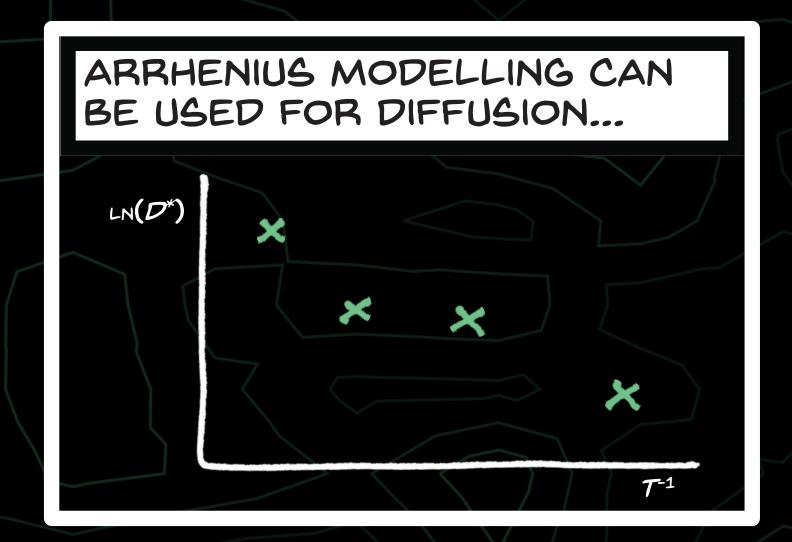


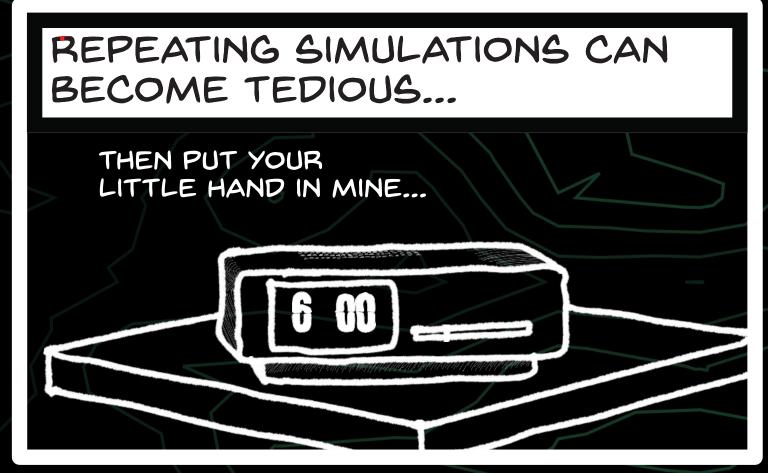


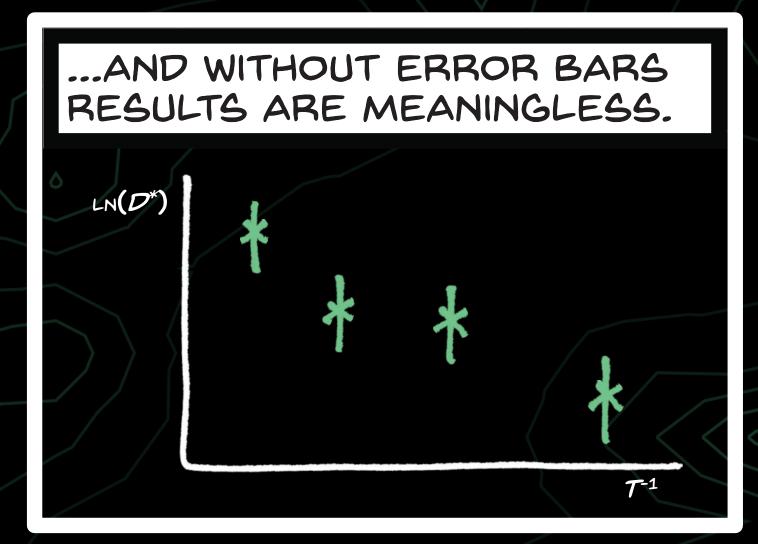




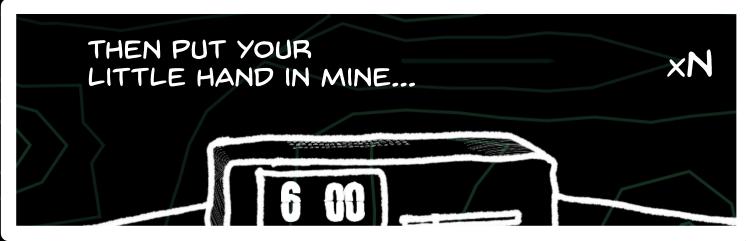










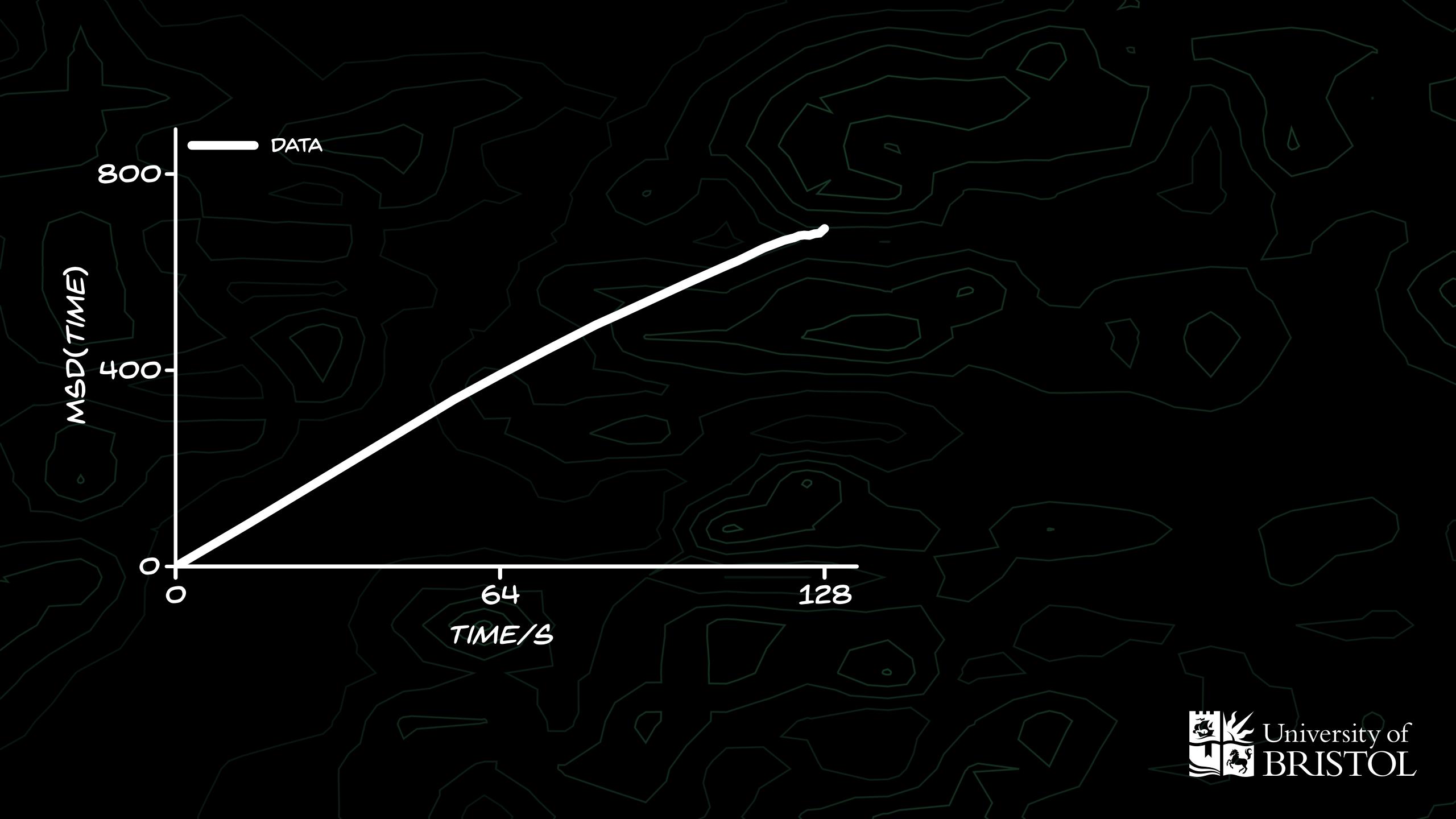


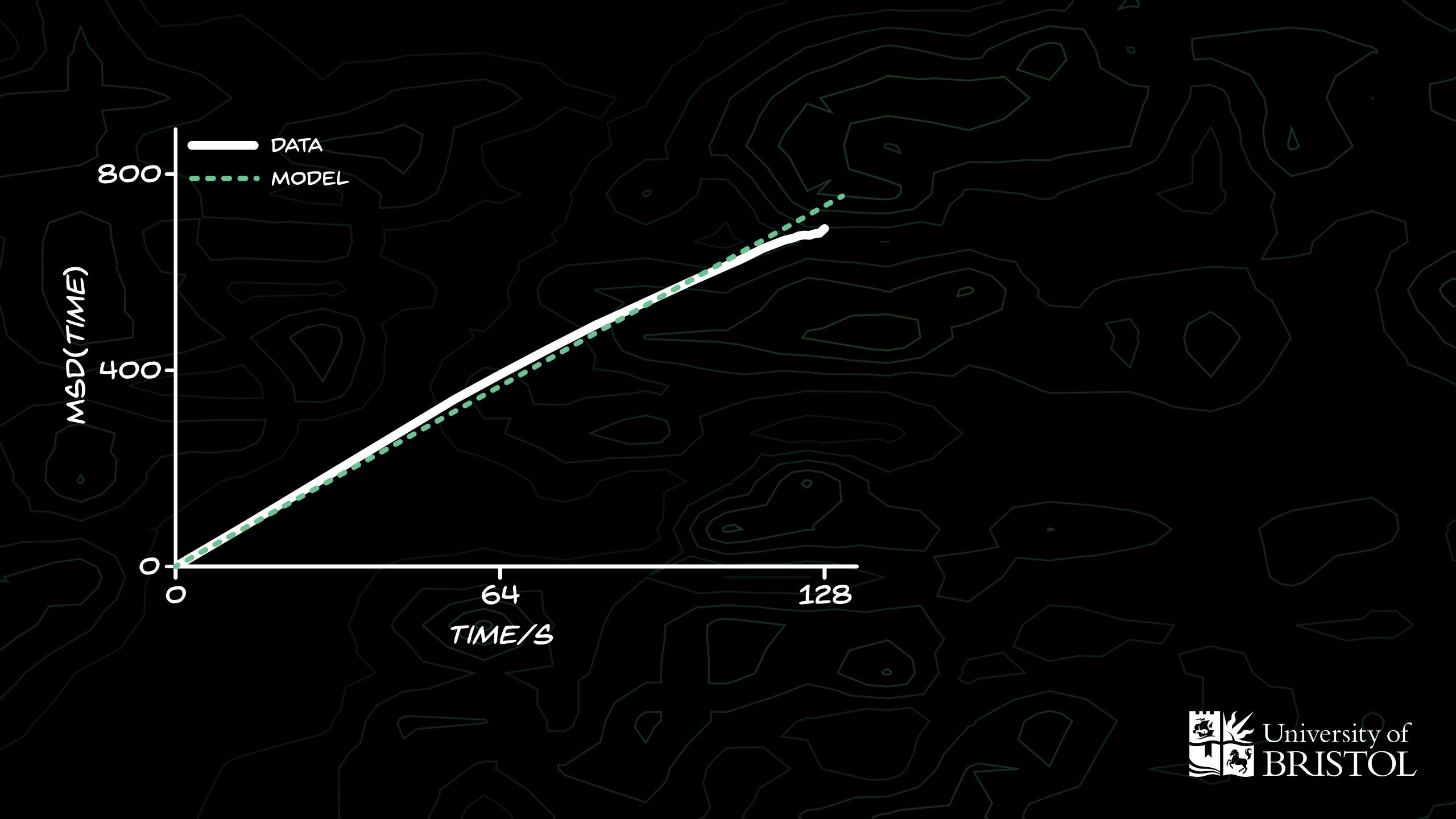
...SO WE WANT THE BEST WAY TO MAXIMISE THE **PRECISION** OF OUR ESTIMATE AND THE **ACCURACY** OF THE VARIANCE ESTIMATE.

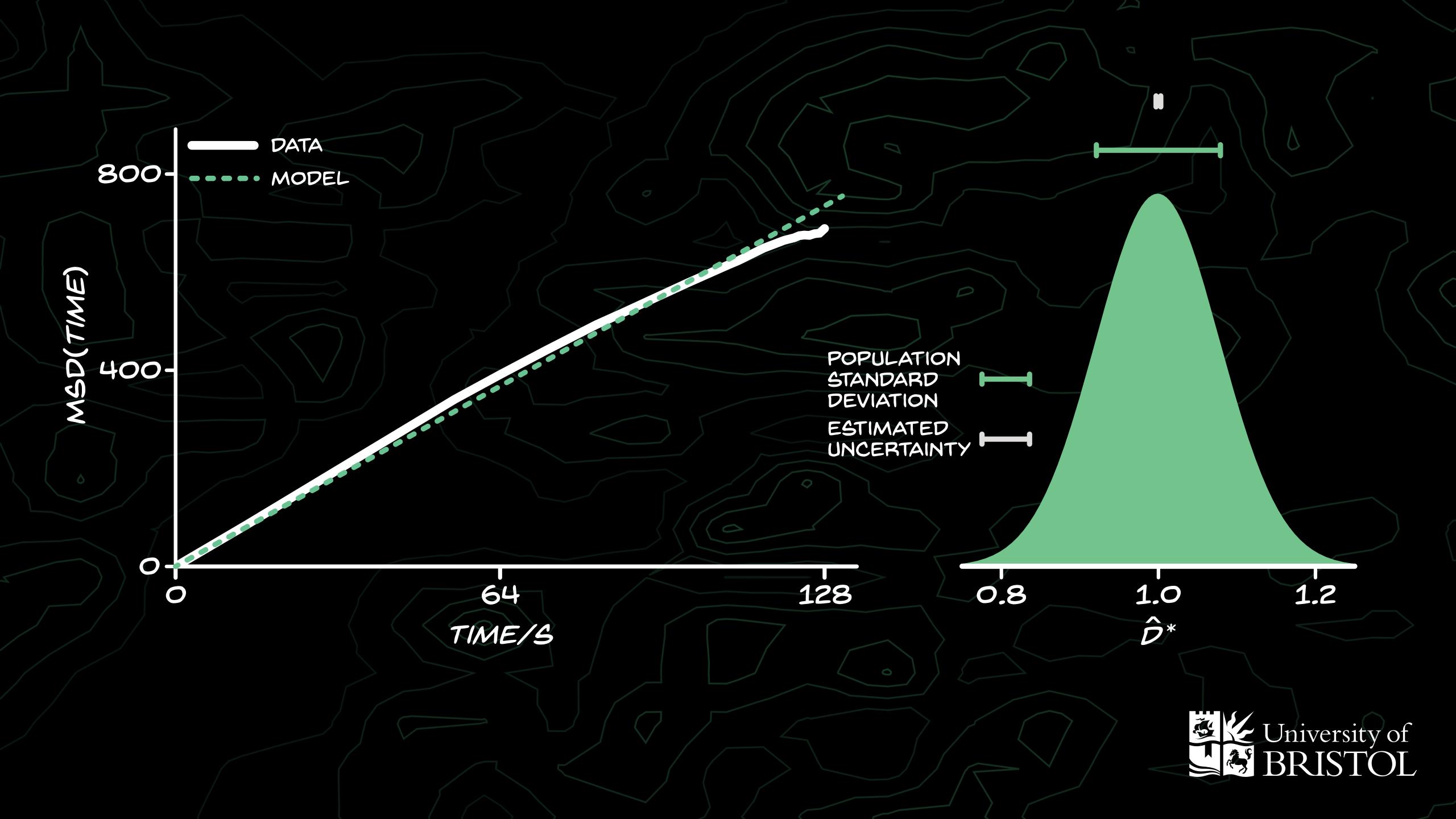


IDEALLY, FROM A SINGLE MEASUREMENT.

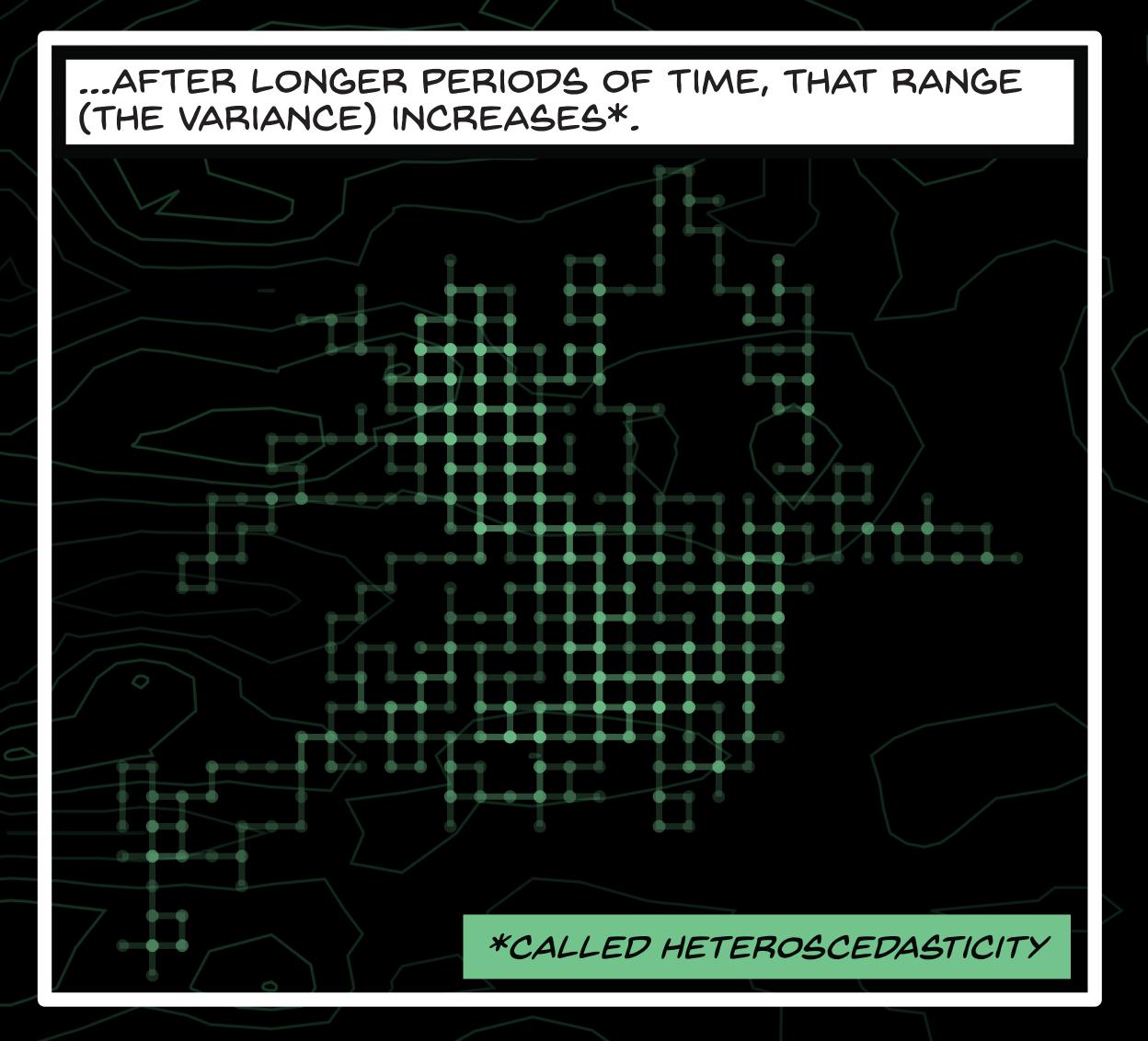




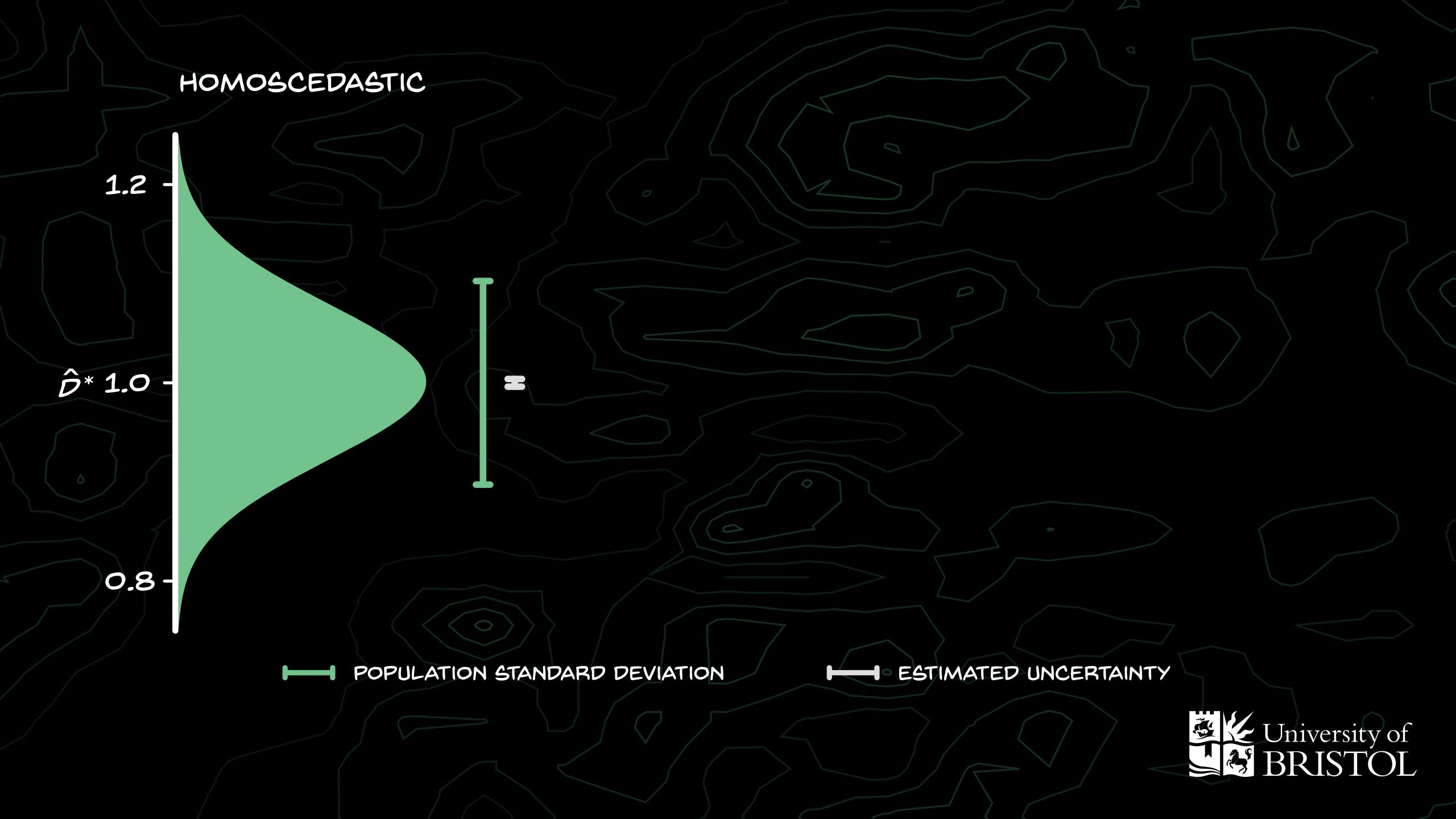


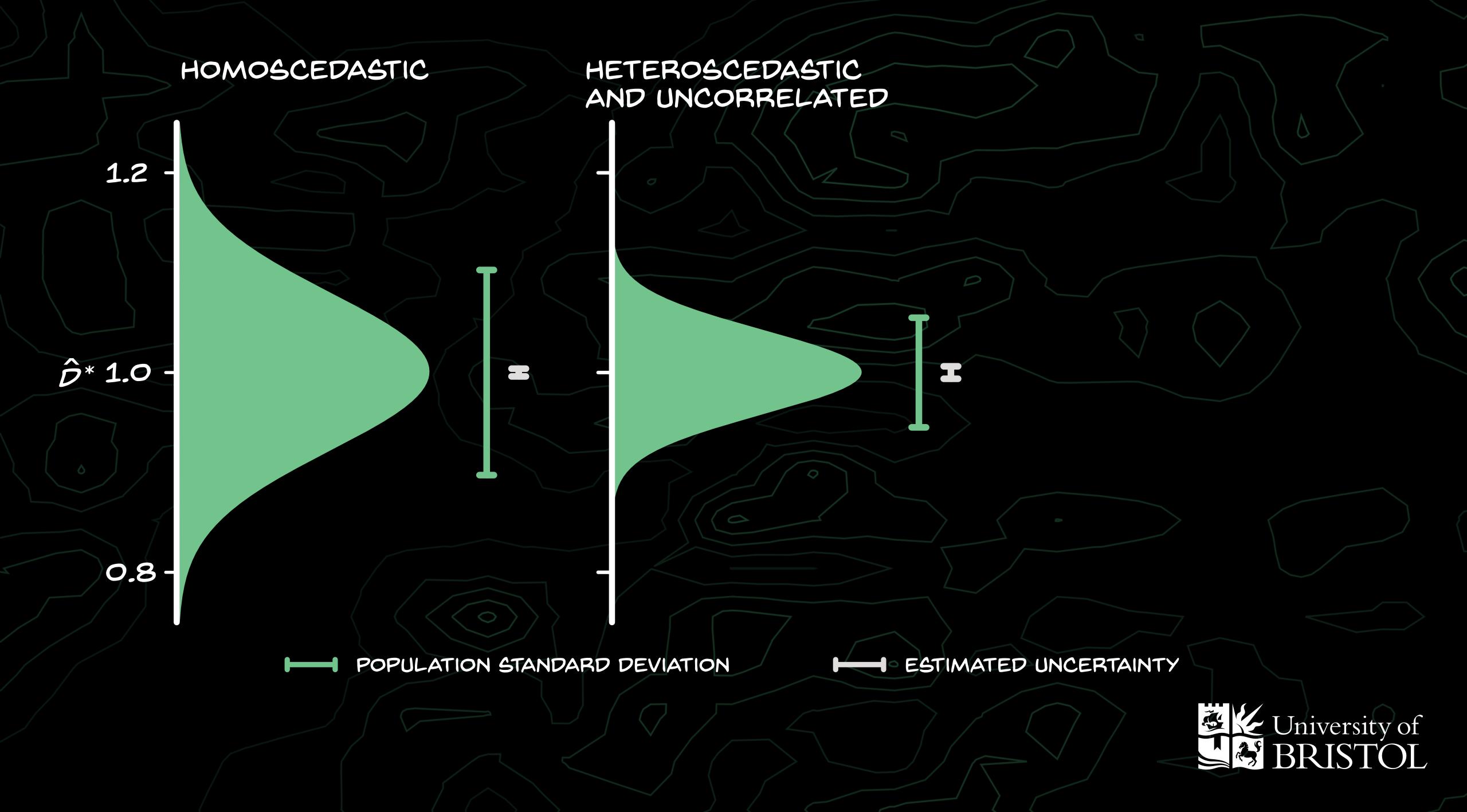


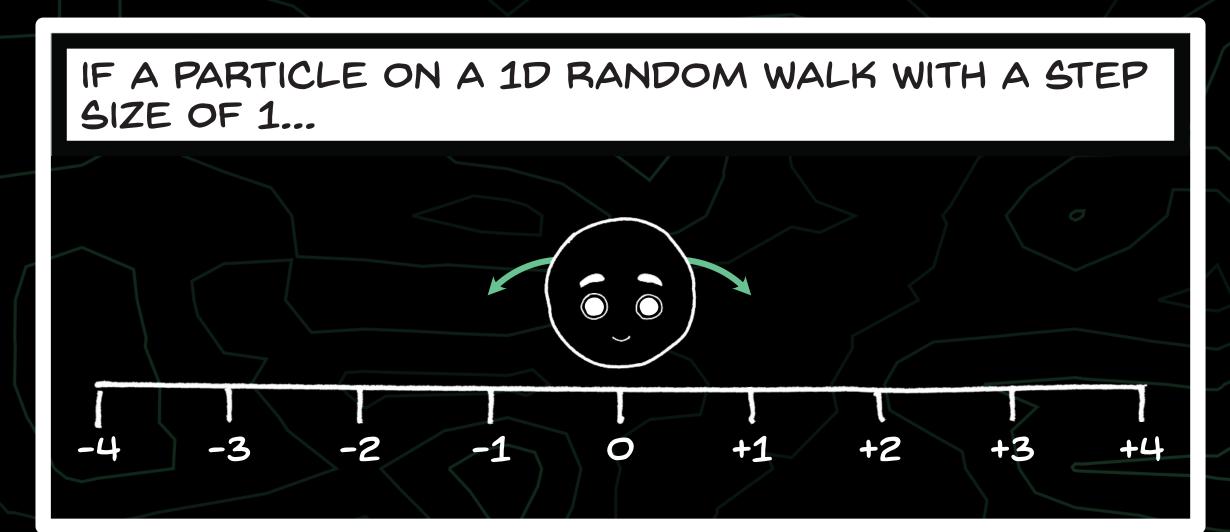
AFTER 16 2D RANDOM WALK STEPS, THERE ARE A RANGE OF VALUES OF DISPLACEMENT THAT CAN BE REACHED ....

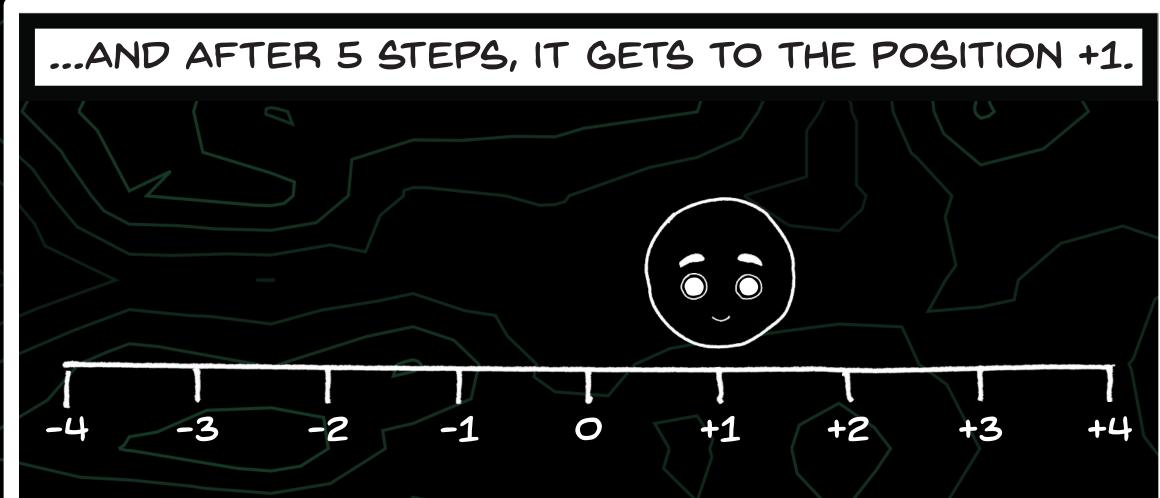


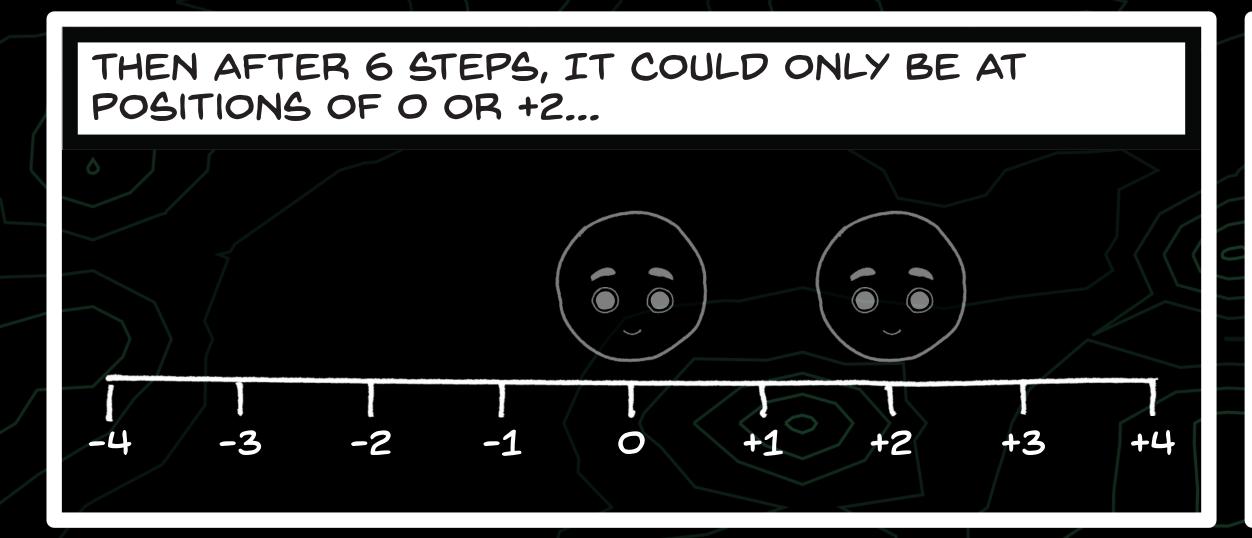


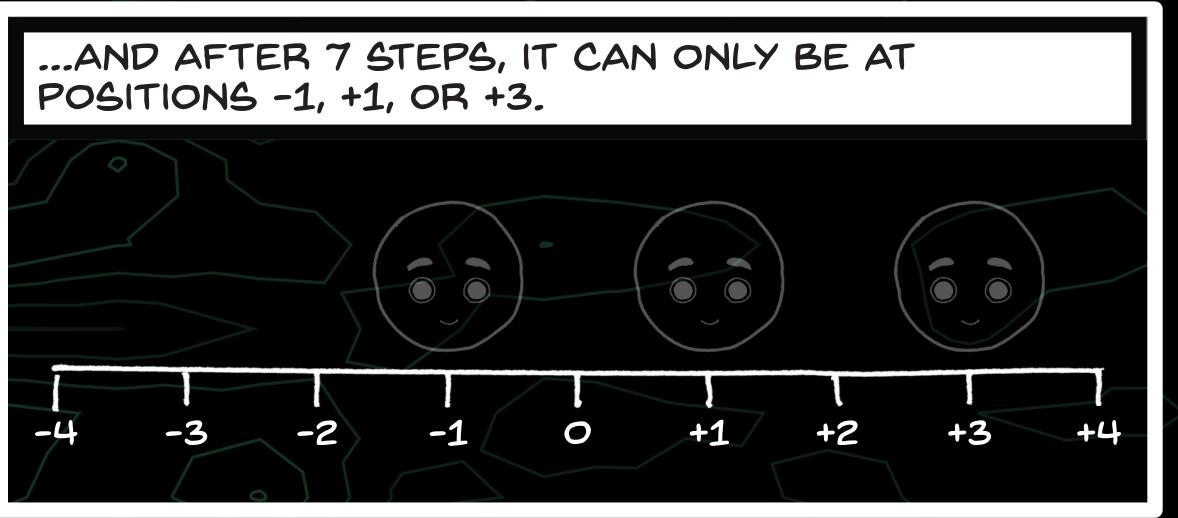




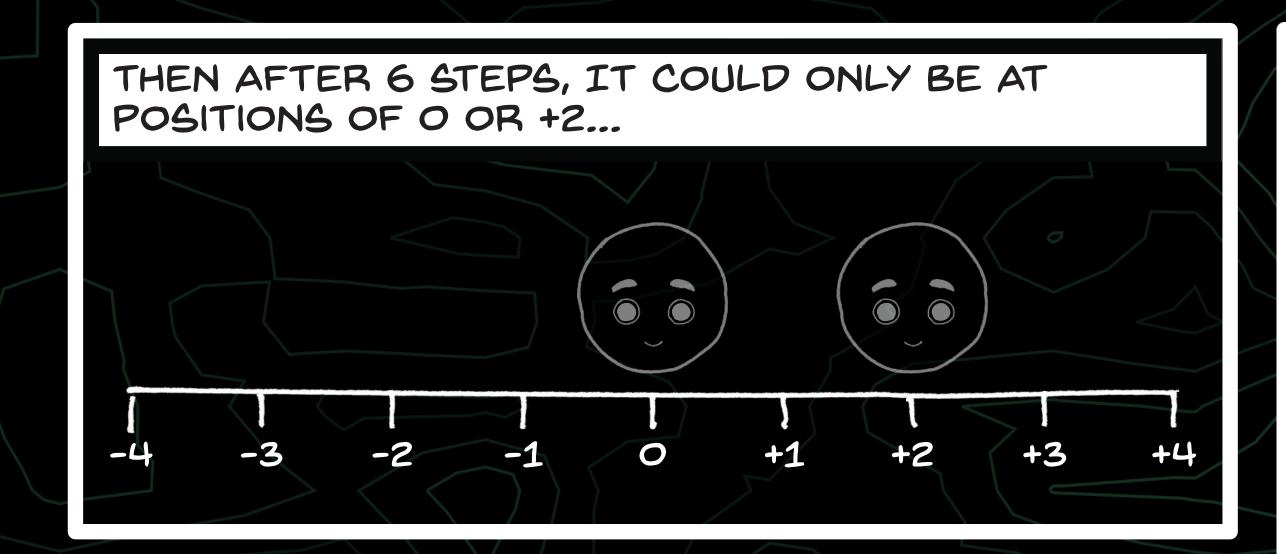


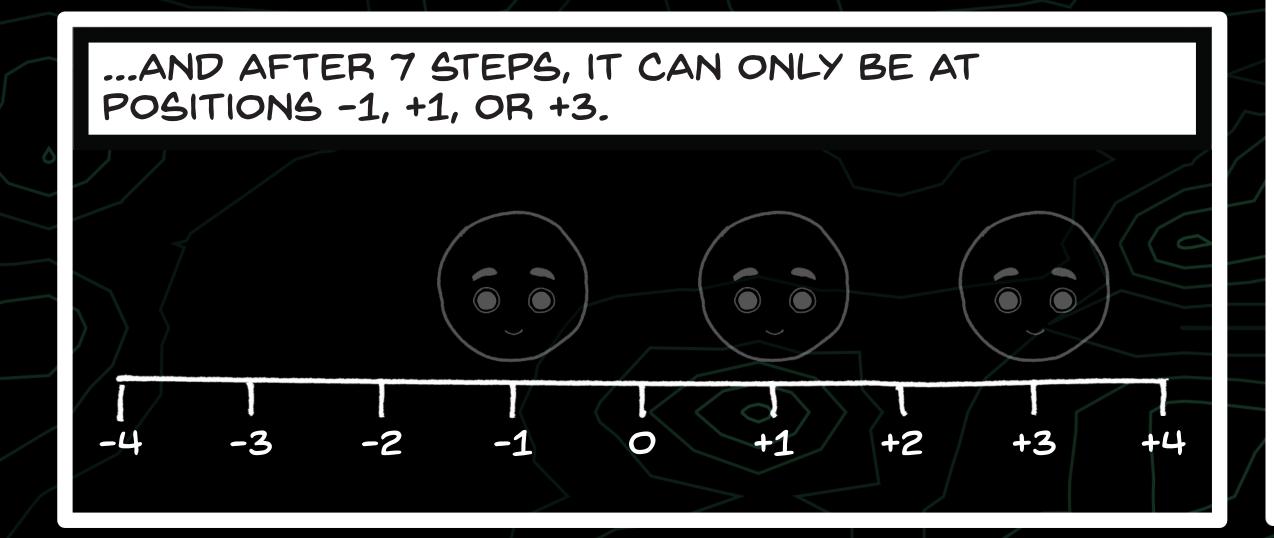


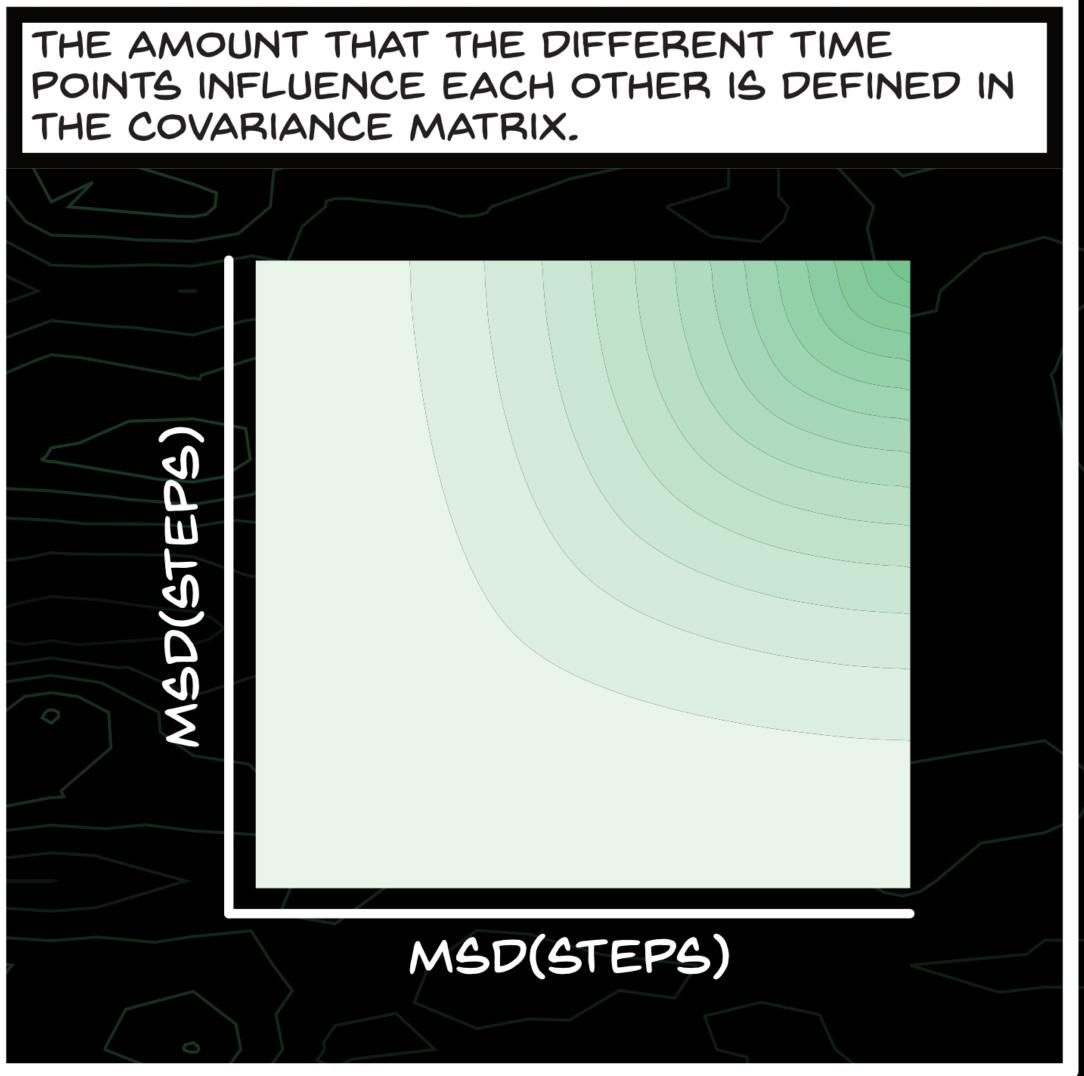




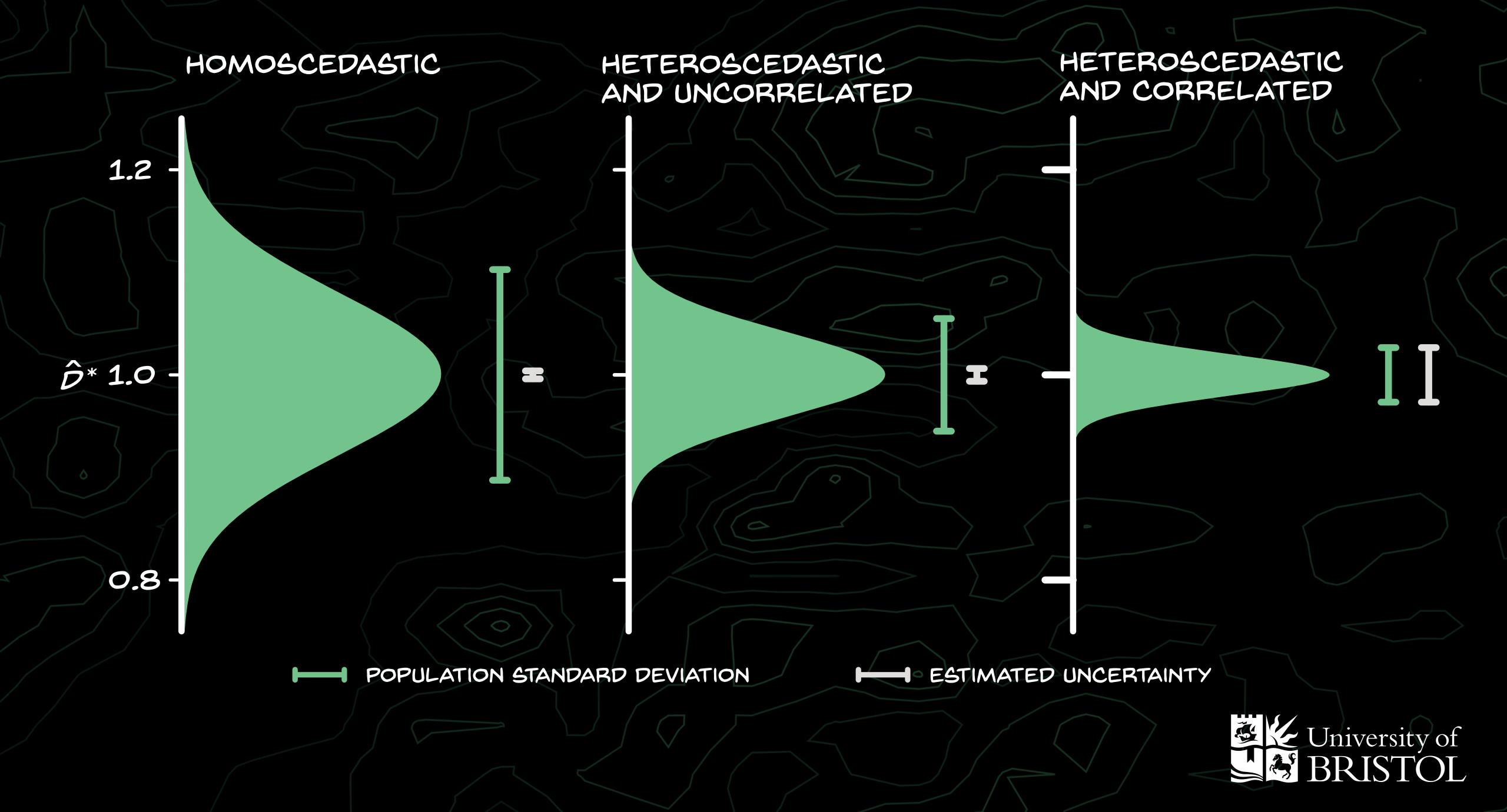


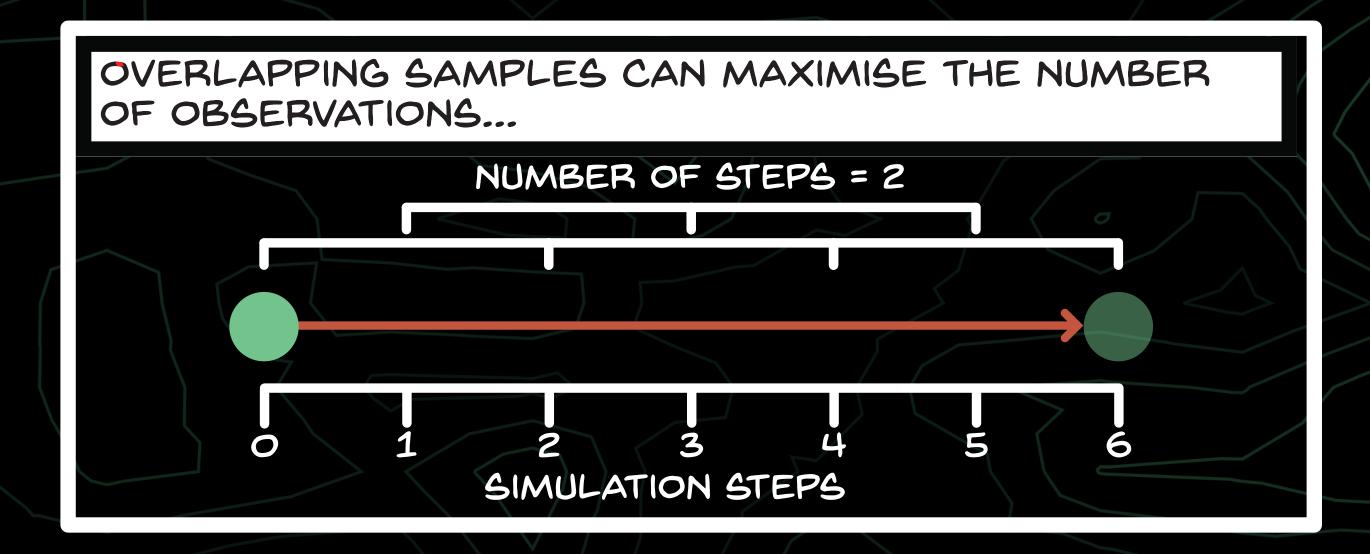




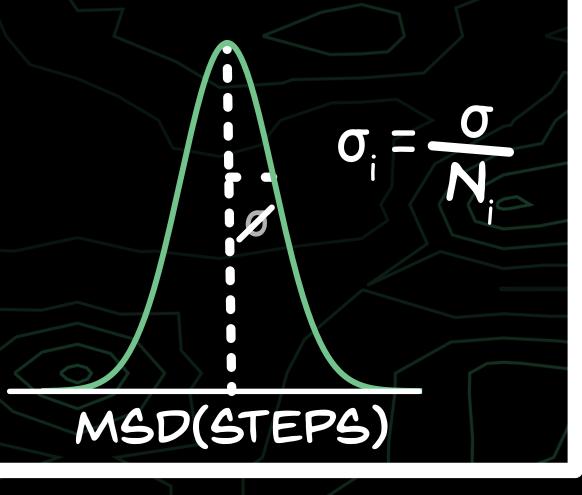




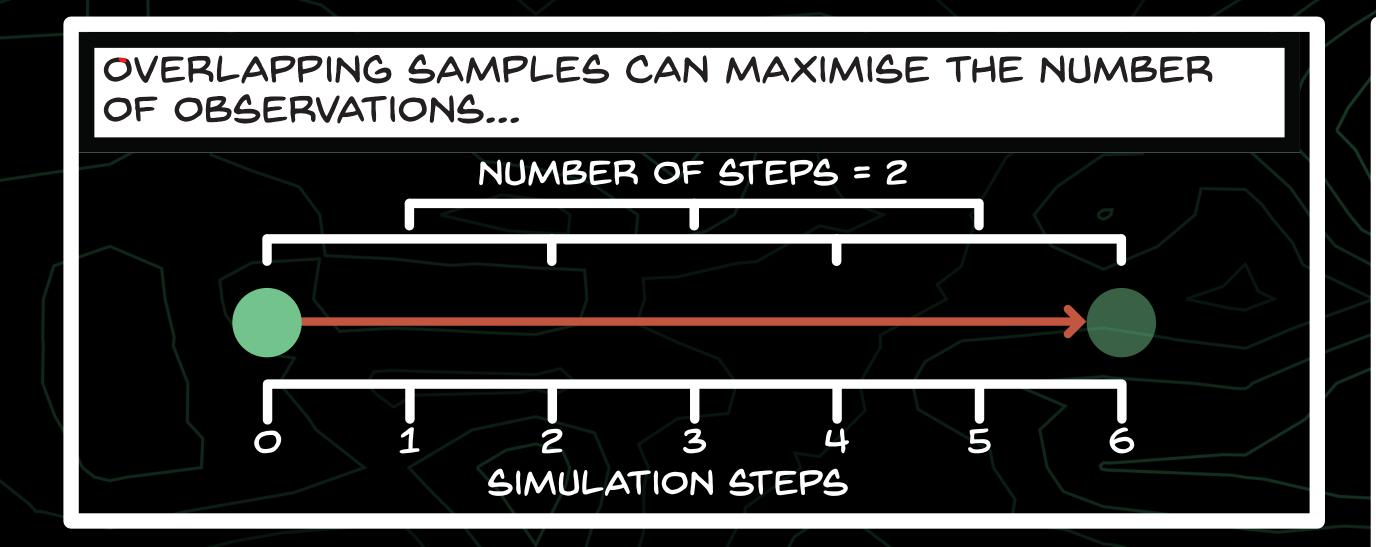




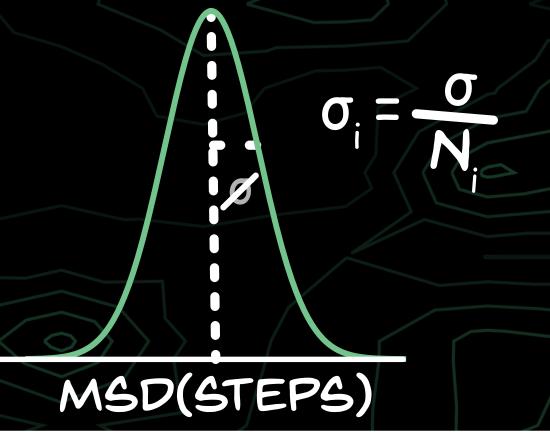
...HOWEVER, AS THE SAMPLES ARE NOT STATISTICALLY INDEPENDENT, THE VARIANCE MUST BE RESCALED BY THE NUMBER OF INDEPENDENT SAMPLES.

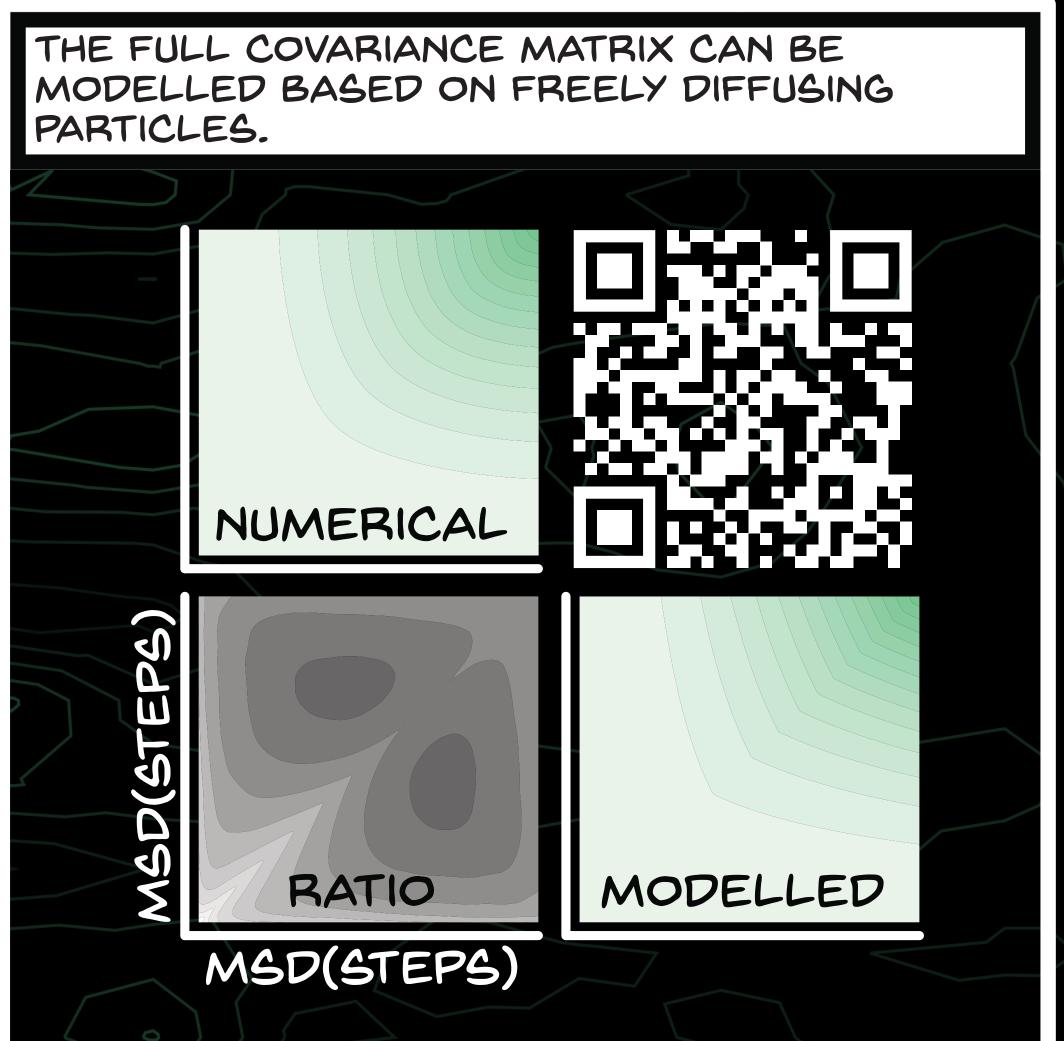




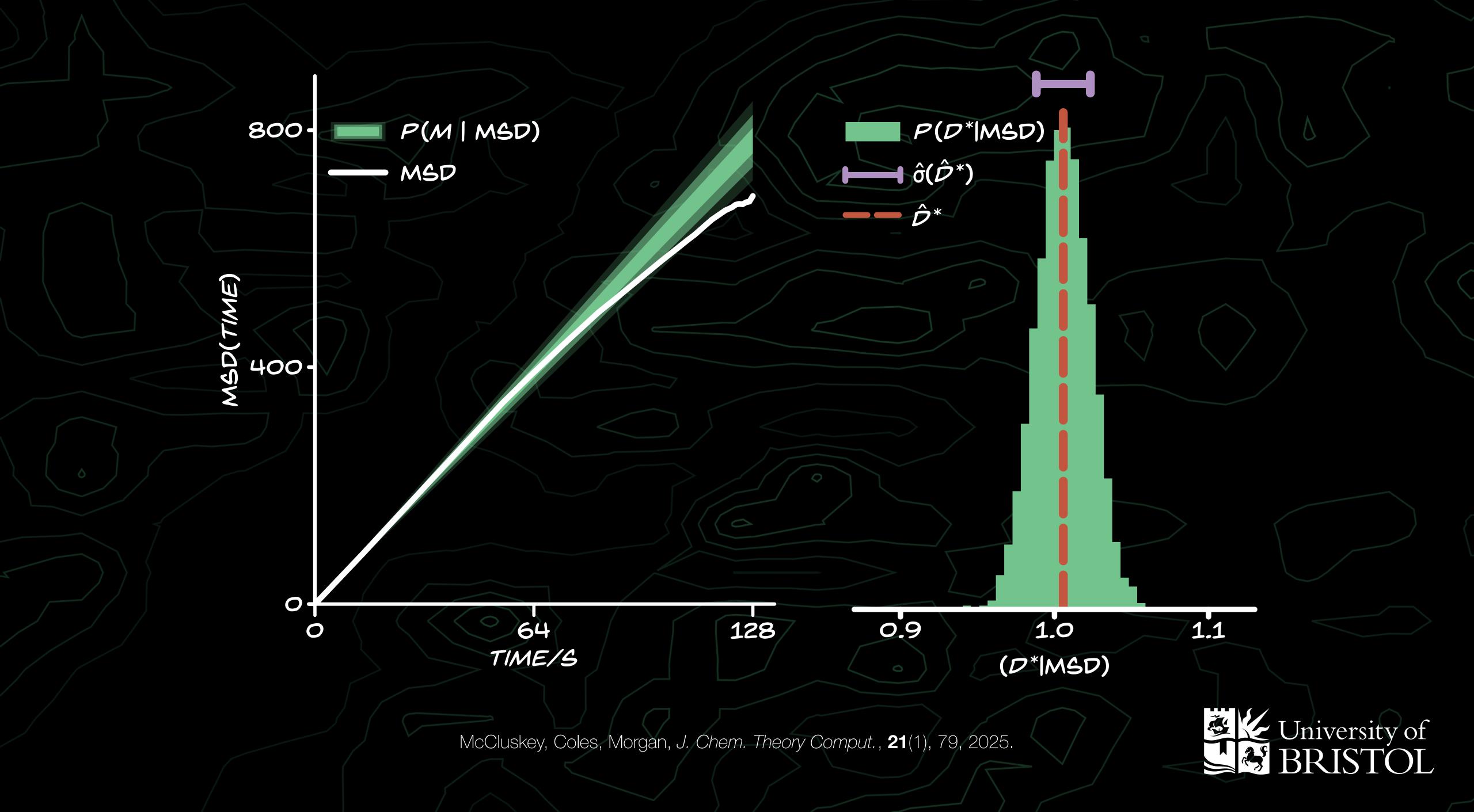


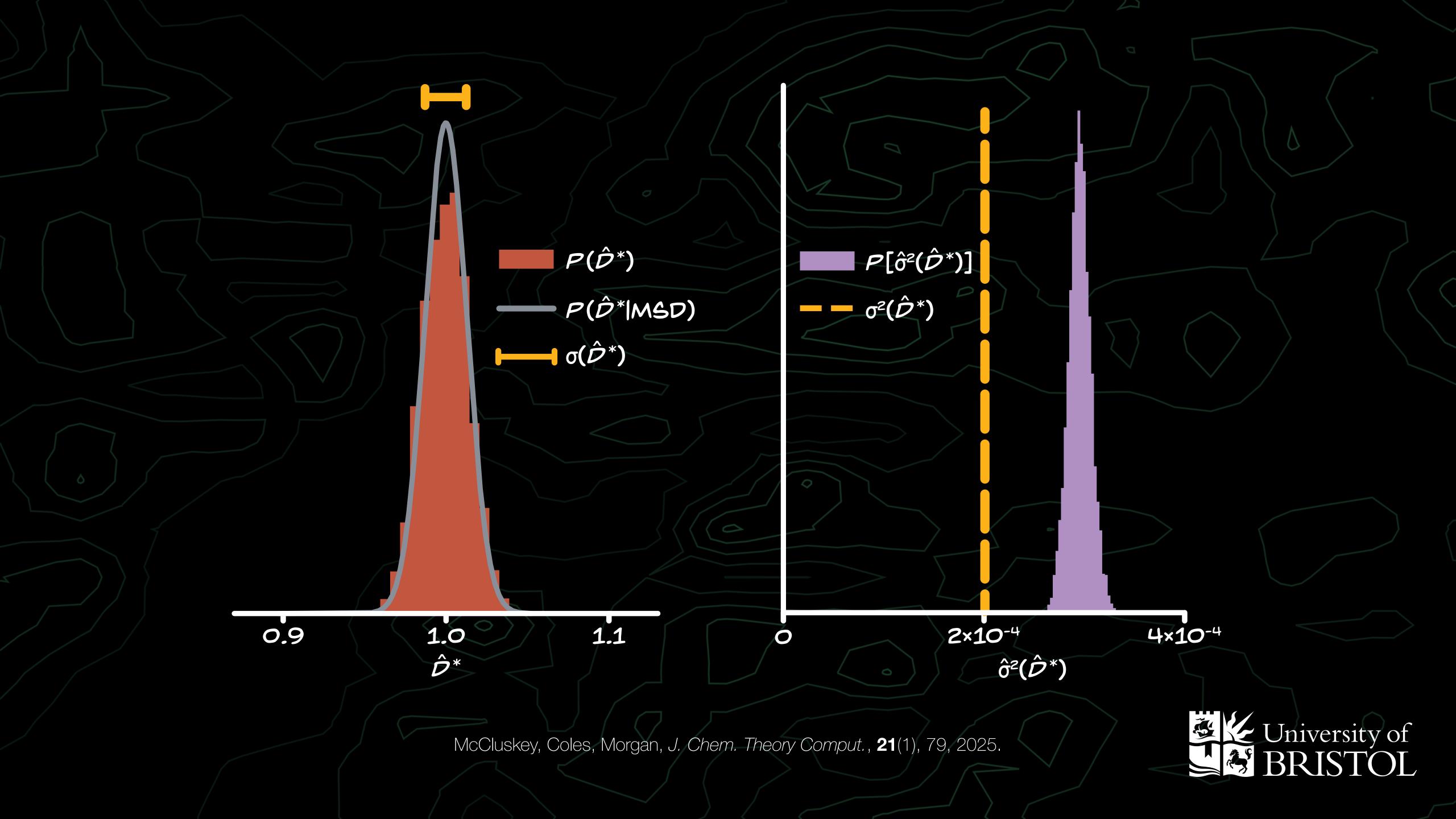
...HOWEVER, AS THE SAMPLES ARE NOT STATISTICALLY INDEPENDENT, THE VARIANCE MUST BE RESCALED BY THE NUMBER OF INDEPENDENT SAMPLES.

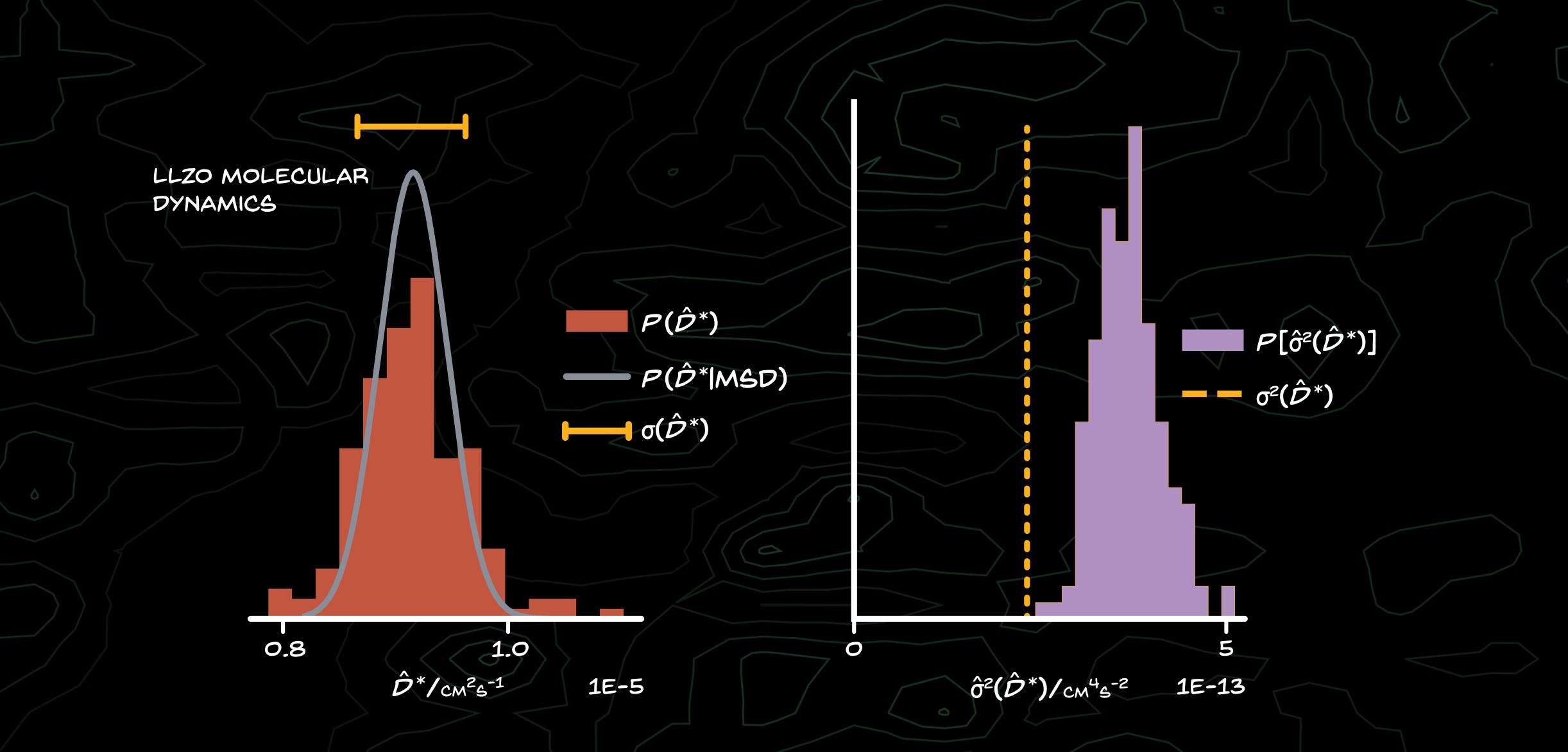










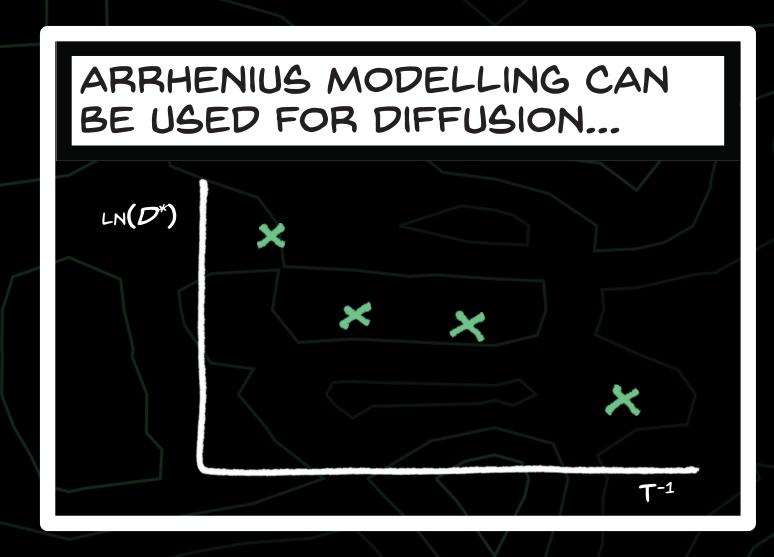


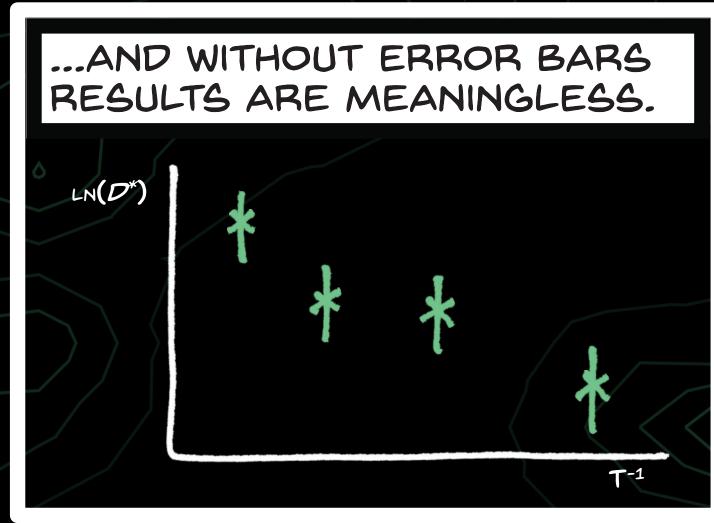




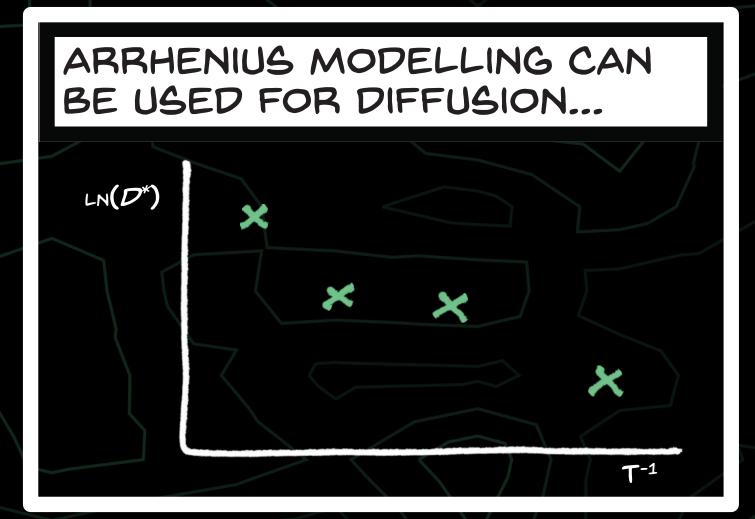
# KINISI.RTFD.10

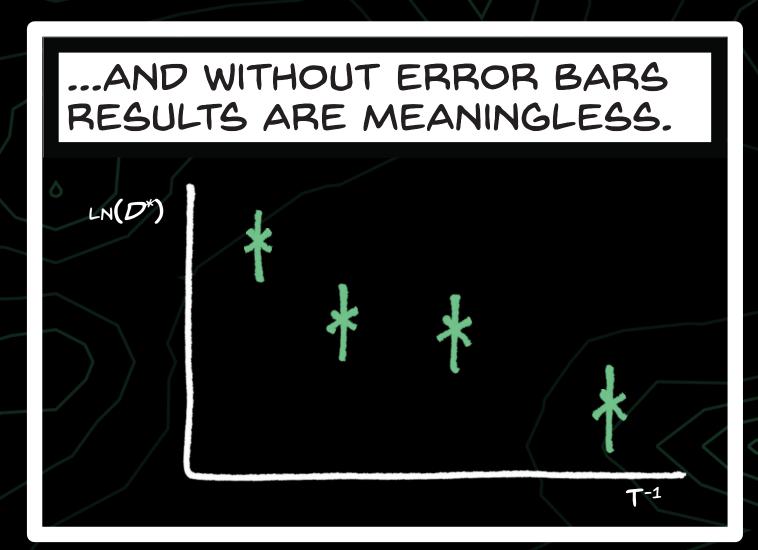


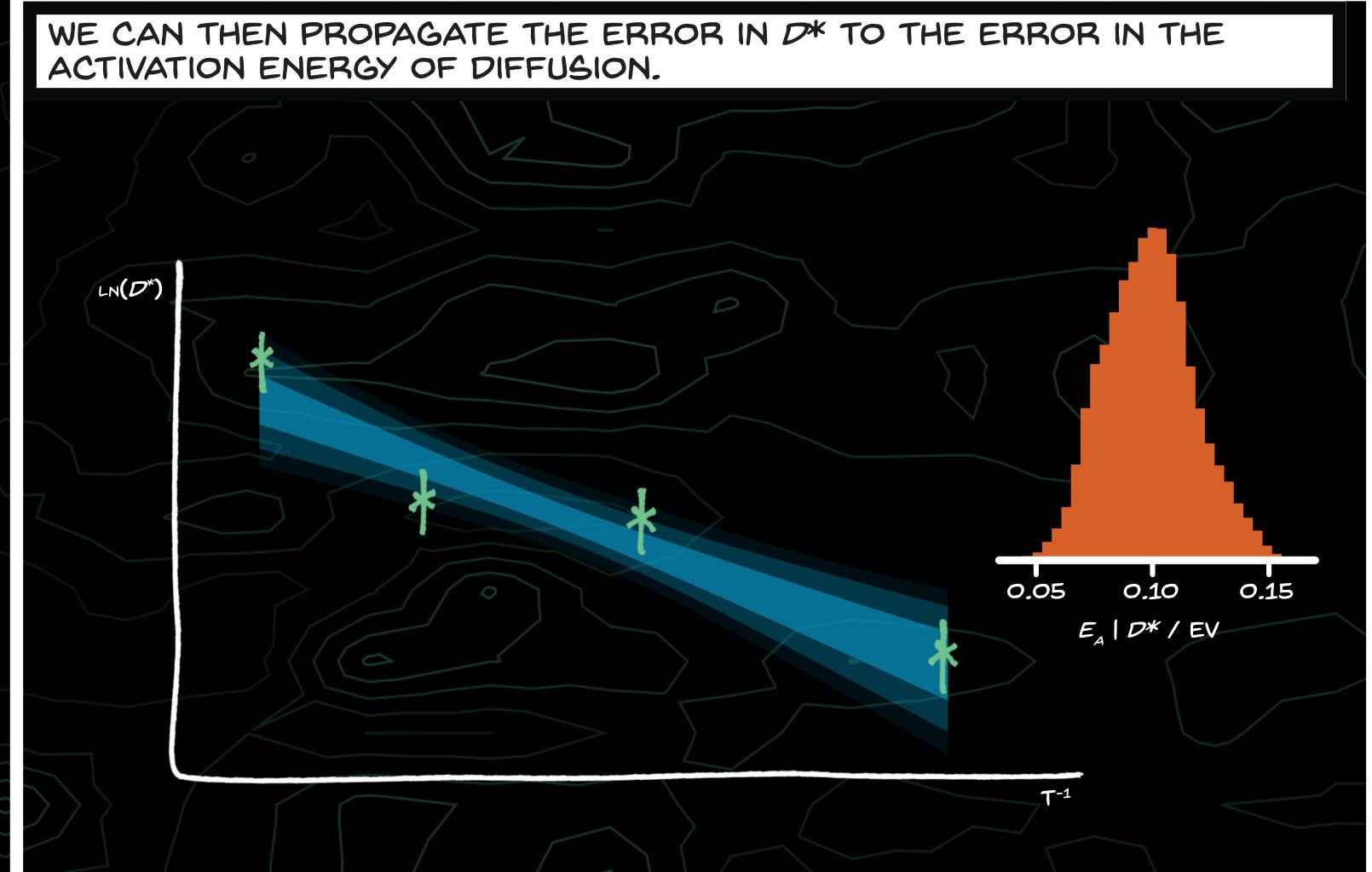




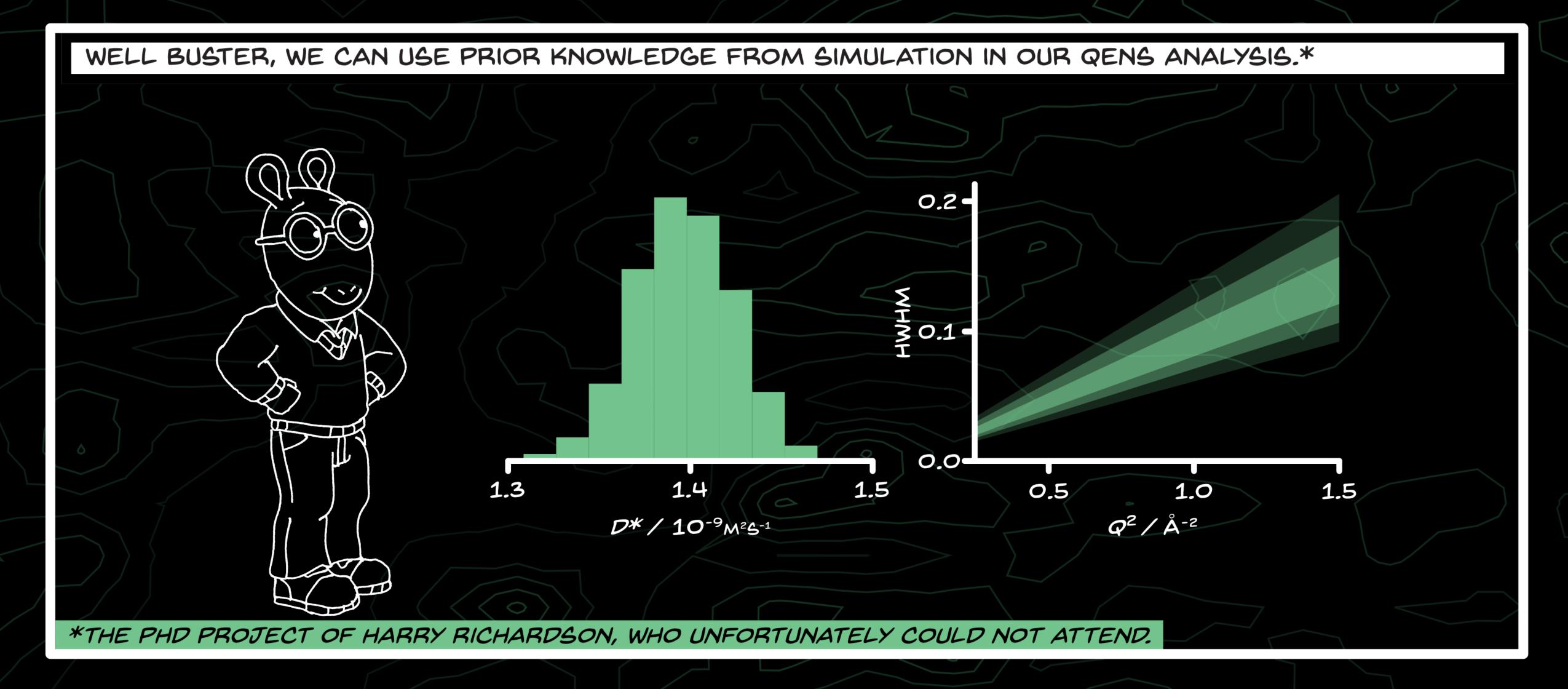








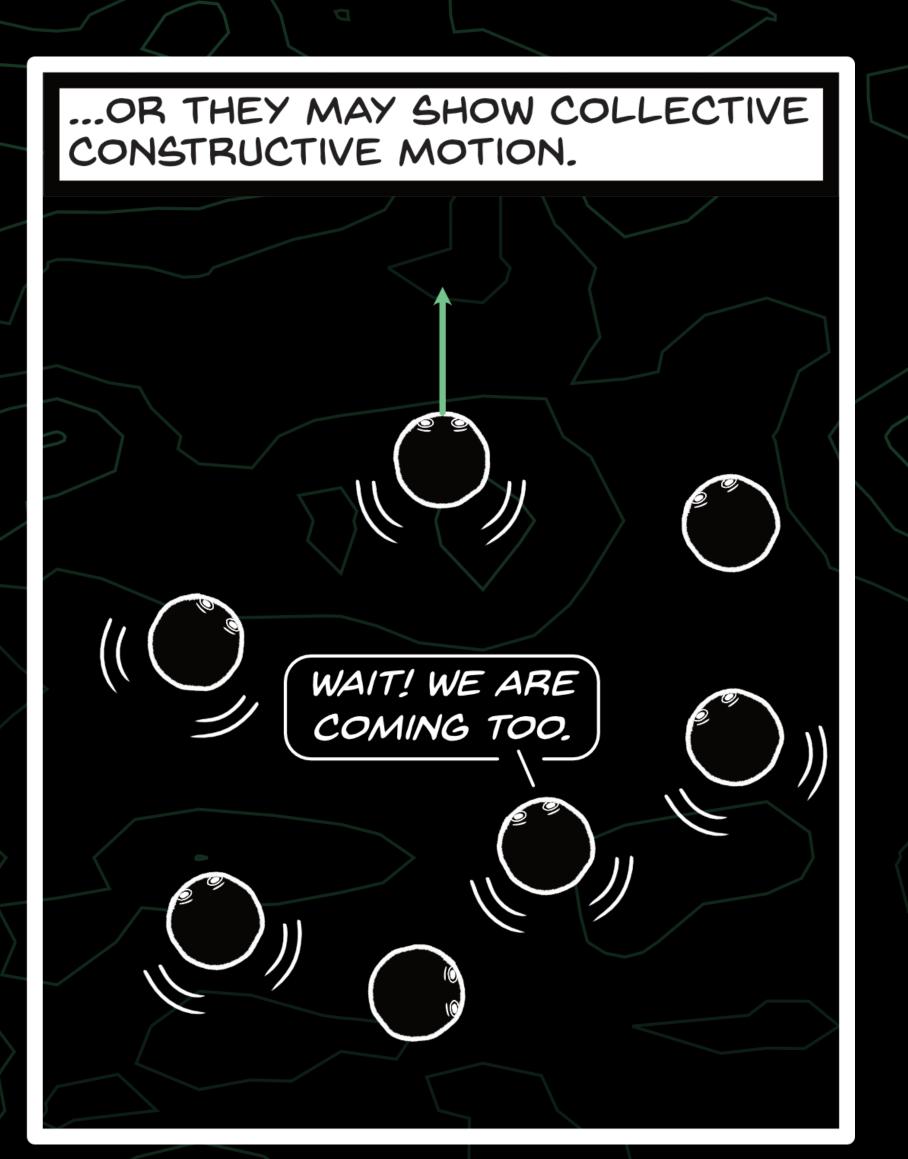














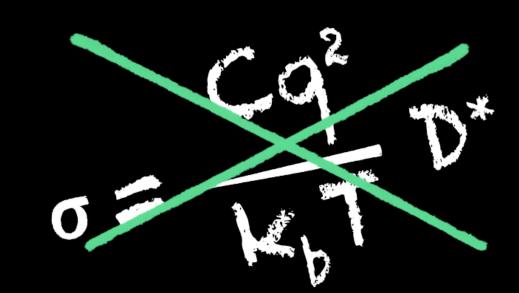
### The Nernst-Einstein Relation

albert woz here



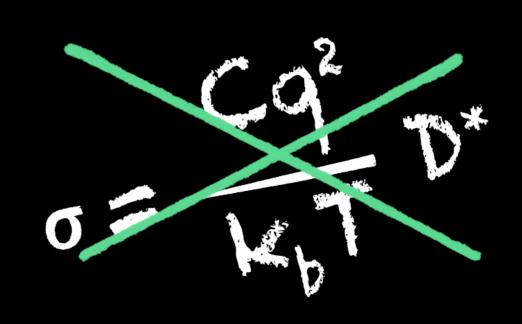
### The Nernst-Einstein Relation

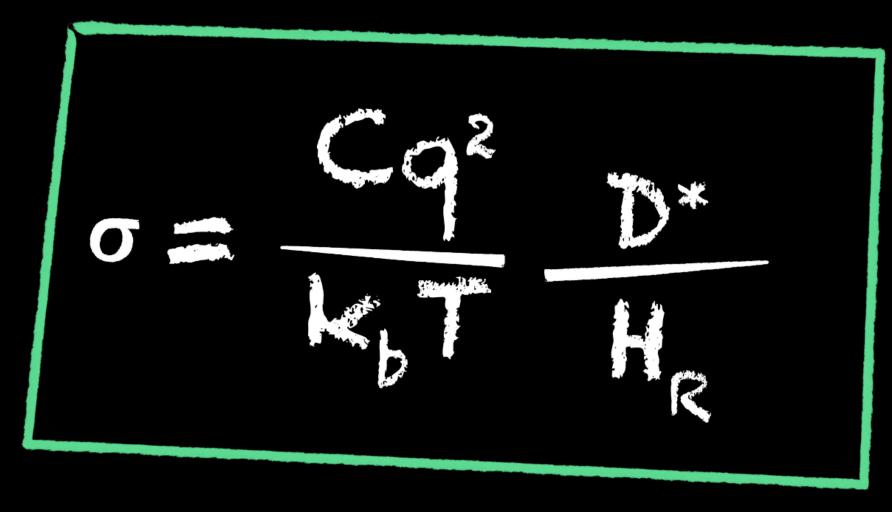
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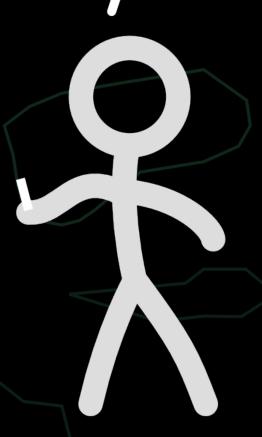
#### The Nernst-Einstein Relation



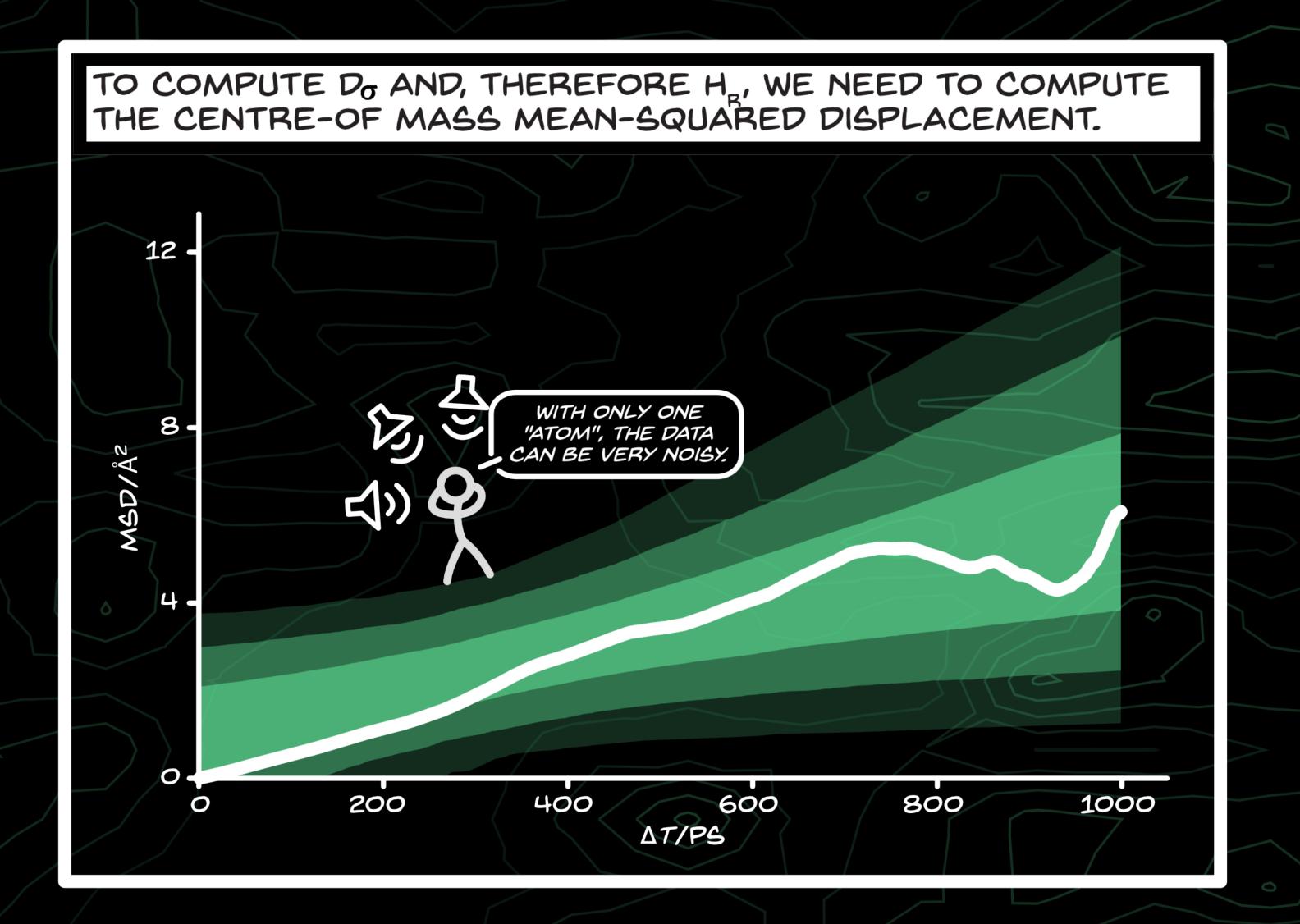


albert woz here

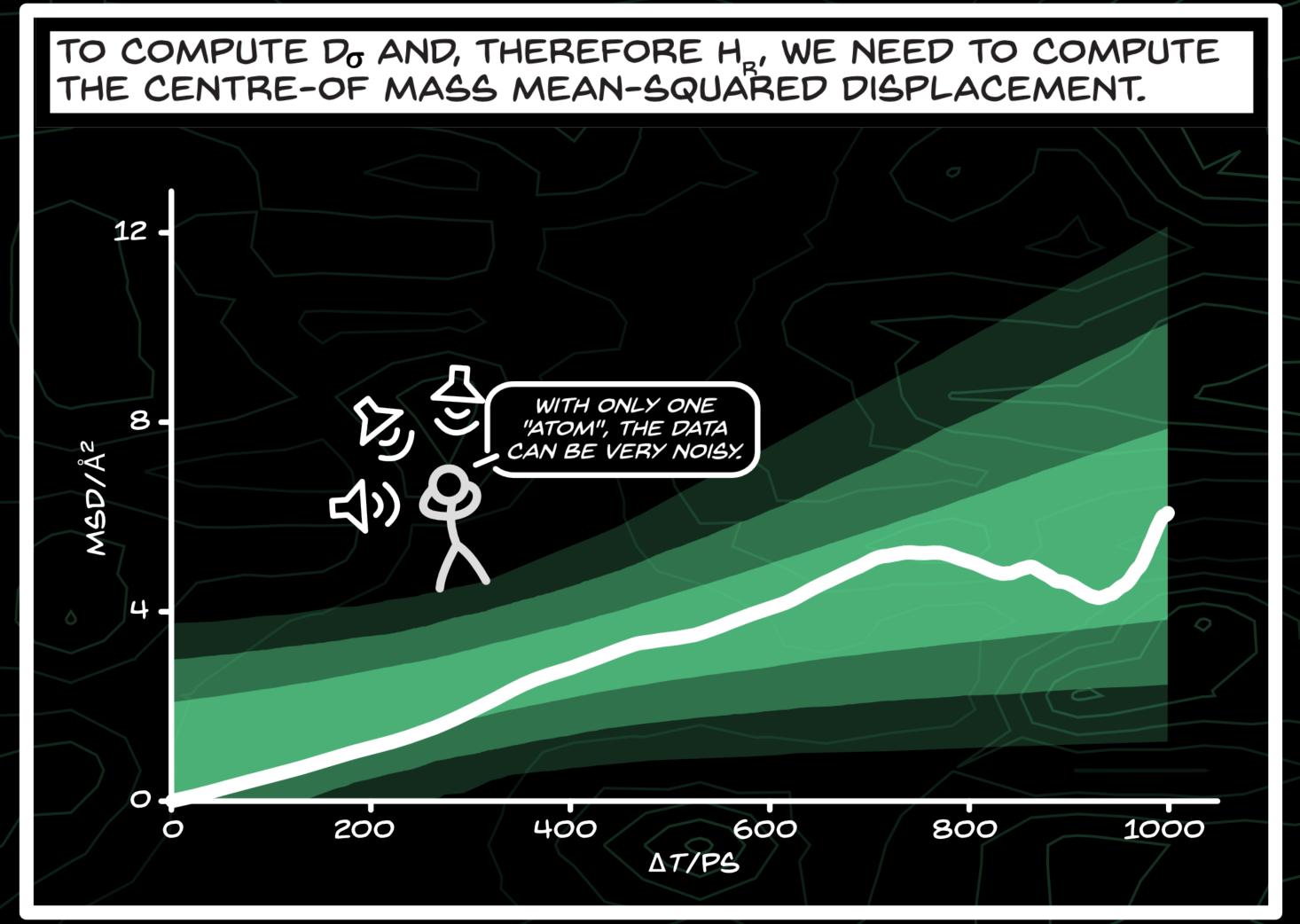
YOU SEE, CORRELATION IS IMPORTANT TO UNDERSTAND CONDUCTIVITY.

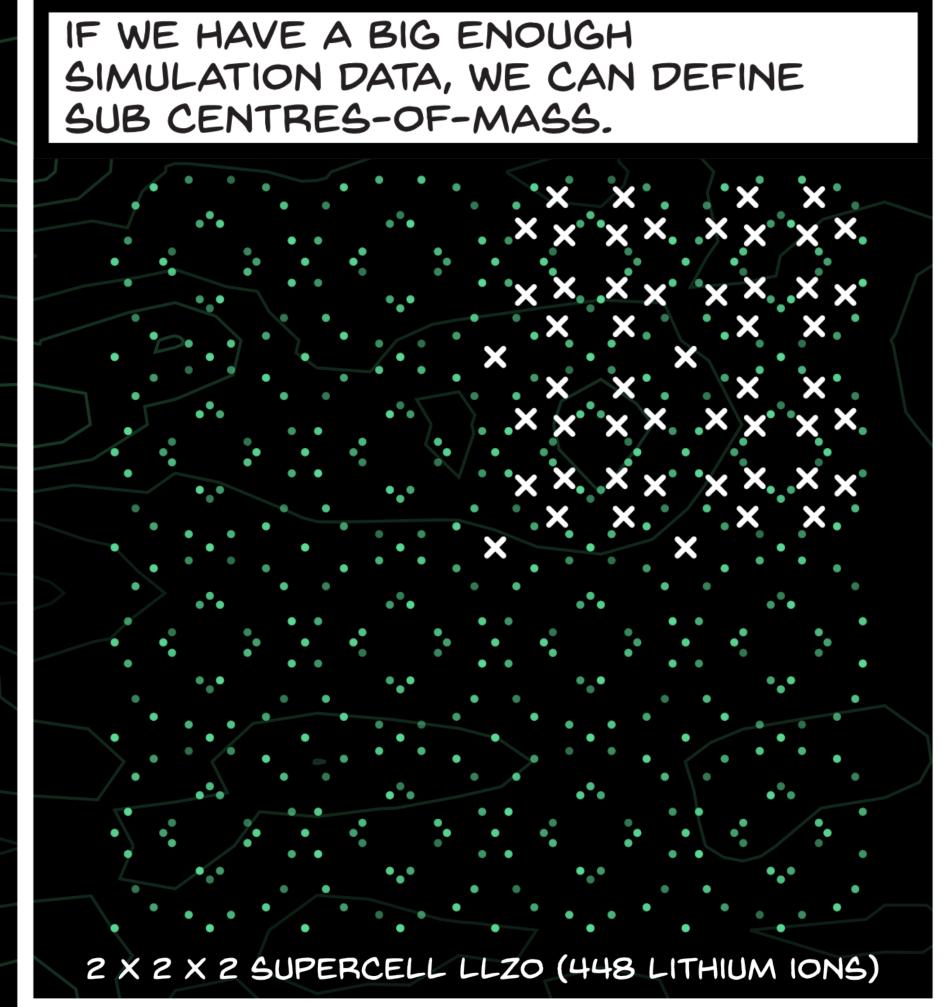




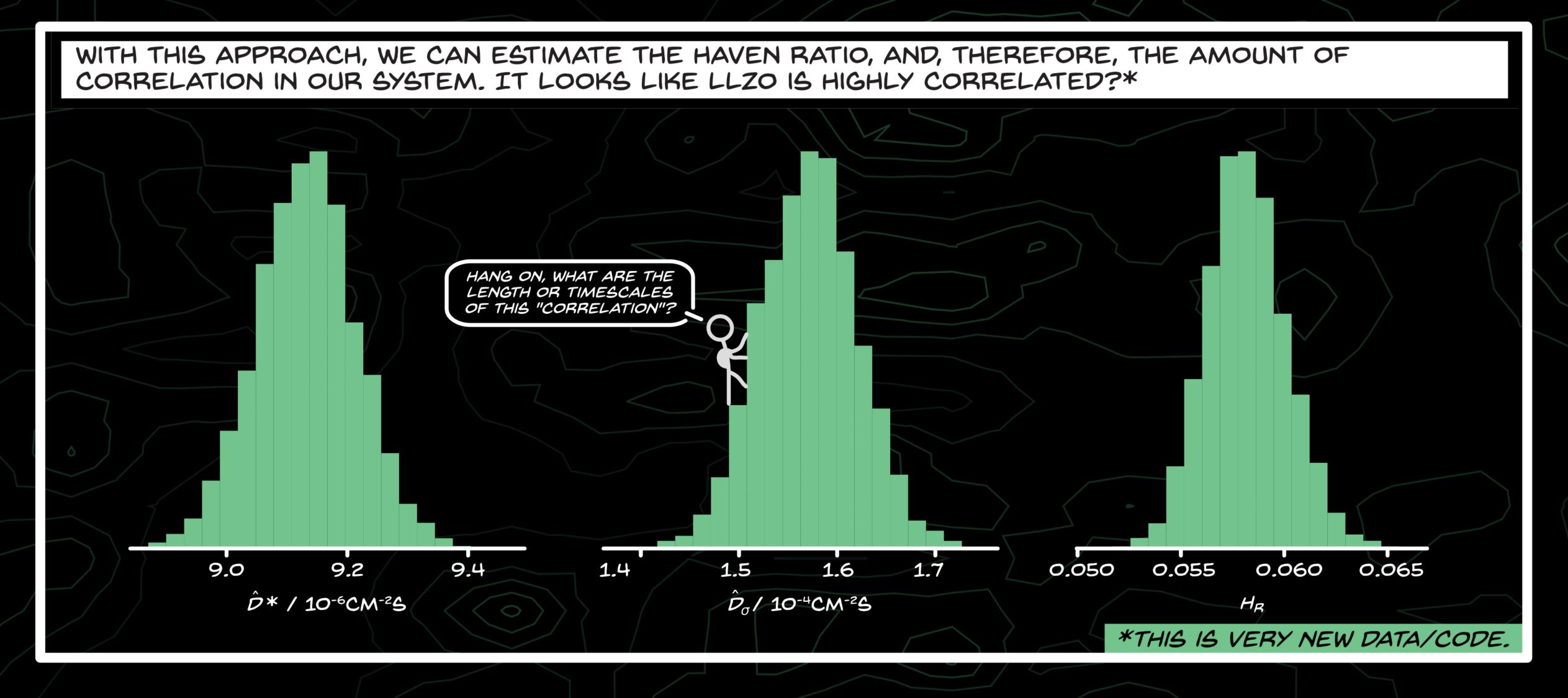




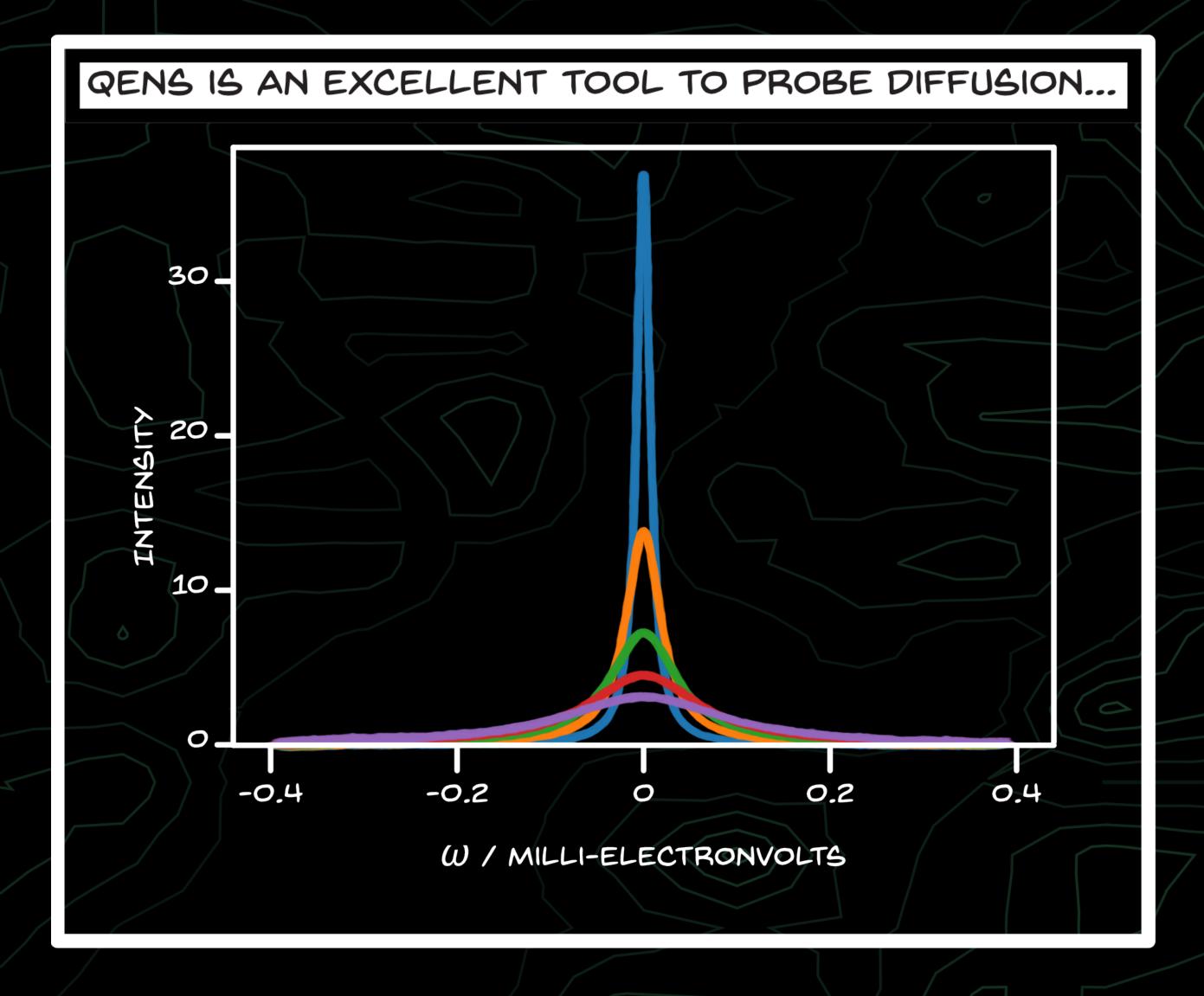


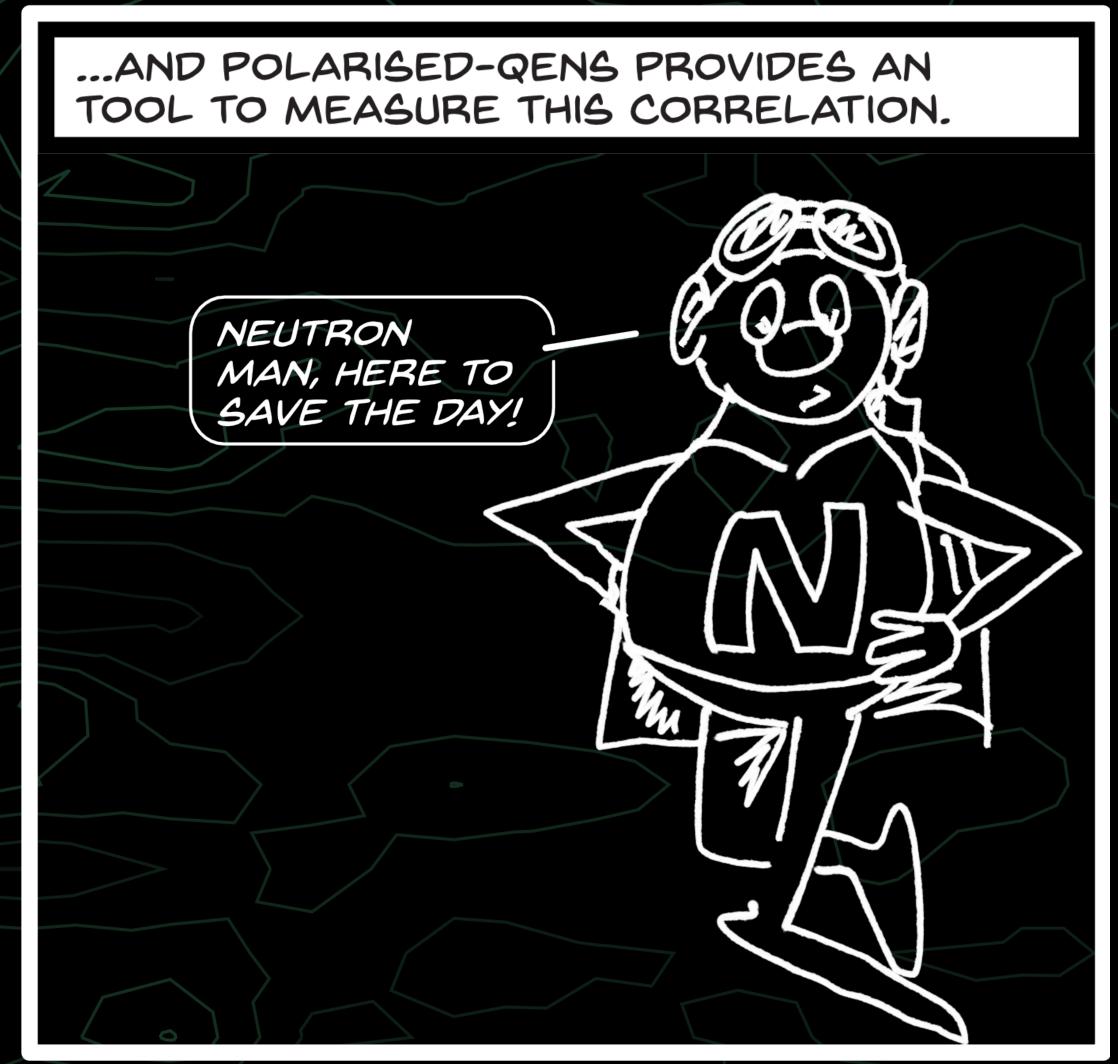














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Harry Richardson (Bristol)

THANKS FOR LISTENING!

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Jeff Armstrong (ISIS)

Kit McColl (Bath)

